

1989  
BMW 525i/535i (E34)  
Electrical  
Troubleshooting  
Manual  
6/88 Production Through 2/89

## CONTENTS

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Index .....	0100.0-00
Introduction .....	0110.0-00
Systematic Troubleshooting .....	0130.0-00
Symbols .....	0140.0-00
Power Distribution Chart .....	0670.0-00
Fuse Chart .....	0670.1-00
Power Distribution .....	0670.2-00
Ground Distribution .....	0670.4-00
Component Location Chart .....	7000.0-00
Component Location Views .....	7100.0-00
Splice Location Views .....	8000.0-00
Connector Views .....	8500.0-00

---

[Back to Start Page](#)

Antilock Brake System . . . . .	3450.0-00
Auxiliary Fan . . . . .	6454.0-00
Brake Lining Warning . . . . .	6200.0-01
CD Changer . . . . .	6510.0-05
Cellular Telephone (Provisions) . . . . .	6561.0-00
Central Body Electronics . . . . .	6100.0-00
ZKE Central Locking (ZV) . . . . .	5126.0-00
Charging Plug . . . . .	6332.0-00
Charging System . . . . .	1230.0-00
Check Control . . . . .	6200.0-00
Cigar Lighter . . . . .	6332.0-00
Component Location Chart . . . . .	7000.0-00
Connector Views . . . . .	8500.0-00
Cruise Control (TEMPOMAT) . . . . .	6571.0-00
Diagnostic Link . . . . .	0670.5-00
ZKE Door Lock Heating (TSH) . . . . .	5120.0-00
E-Box Fan . . . . .	1290.0-00
Electronic Transmission Control (AEGS) . . . . .	2460.0-00
Fuse Details	
— Fuse 1 . . . . .	0670.3-00
— Fuse 2 . . . . .	0670.3-00
— Fuse 3 . . . . .	0670.3-01
— Fuse 4 . . . . .	0670.3-01
— Fuse 5 . . . . .	0670.3-01
— Fuse 6 . . . . .	0670.3-01
— Fuse 7 . . . . .	0670.3-02
— Fuse 9 . . . . .	0670.3-02
— Fuse 10 . . . . .	0670.3-02
— Fuse 11 . . . . .	0670.3-02
— Fuse 12 . . . . .	0670.3-03
— Fuse 13 . . . . .	0670.3-05
— Fuse 14 . . . . .	0670.3-05
— Fuse 15 . . . . .	0670.3-05
— Fuse 16 . . . . .	0670.3-06
— Fuse 17 . . . . .	0670.3-07

— Fuse 18 . . . . .	0670.3-08
— Fuse 19 . . . . .	0670.3-09
— Fuse 20 . . . . .	0670.3-09
— Fuse 21 . . . . .	0670.3-10
— Fuse 22 . . . . .	0670.3-11
— Fuse 23 . . . . .	0670.3-11
— Fuse 24 . . . . .	0670.3-12
— Fuse 25 . . . . .	0670.3-13
— Fuse 26 . . . . .	0670.3-13
— Fuse 28 . . . . .	0670.3-13
— Fuse 29 . . . . .	0670.3-14
— Fuse 30 . . . . .	0670.3-15
— Fuse 31 . . . . .	0670.3-15
— Fuse 32 . . . . .	0670.3-16
— Fuse 37 . . . . .	0670.3-18
— Fuse 40 . . . . .	0670.3-16
— Fuse 41 . . . . .	0670.3-16
— Fuse 42 . . . . .	0670.3-16
— Fuse 43 . . . . .	0670.3-17
— Fuse 44 . . . . .	0670.3-17
— Fuse 46 . . . . .	0670.3-17
— Fuse 47 . . . . .	0670.3-18
— Fuse 48 . . . . .	0670.3-18
— Fuse 49 . . . . .	0670.3-18
Fuel Pump Gauges	
— Fuel . . . . .	6200.0-07
— Fuel Economy . . . . .	6200.0-06
— Speedometer . . . . .	6200.0-06
— Tachometer . . . . .	6200.0-04
— Temperature . . . . .	6200.0-04
Ground Distribution	
— X165 . . . . .	0670.4-00
— X166 . . . . .	0670.4-01
— X167 . . . . .	0670.4-02
— X175 . . . . .	0670.4-03

**BMW**  
**5 INDEX**

— X179 .....	0670.4-02
— X490 .....	0670.4-04
— X491 .....	0670.4-05
— X492 .....	0670.4-06
— X493 .....	0670.4-09
— X495 .....	0670.4-10
— X496 .....	0670.4-12
— X497 .....	0670.4-14
— X818 .....	0670.4-17
— X955 .....	0670.4-17
— X1541 (525i) .....	0670.4-18
— X1541 (535i) .....	0670.4-20
— X1542 (535i) .....	0670.4-22
— X1542 (525i) .....	0670.4-23
— X2008 .....	0670.4-22
Heated Seats .....	5203.0-00
Horn .....	6133.0-00
IHKR Air Delivery .....	6450.1-06
IHKR Auxiliary Water Pump .....	6450.1-09
IHKR Blower Controls .....	6450.1-01
IHKR Compressor Control .....	6450.1-08
IHKR Temperature Controls .....	6450.1-03
IHKR Water Valves .....	6450.1-02
Indicators .....	
— "ABS" .....	3450.0-02
— "Air Bag" .....	3234.0-00
— "Brake Lining" Wear .....	6200.0-01
— "Check Engine" .....	6200.0-00
— "Charge" .....	6200.0-00
— Fog Lights .....	6312.0-01
— High Beam .....	6312.0-00
— Left Turn .....	6313.0-02
— Low Fuel Warning .....	6200.0-07
— Oil Pressure Warning .....	6200.0-00
— "Park Brake" .....	6200.0-02
— Right Turn .....	6313.0-02

Injection Electronics (DME 1.3) .....	1210.2-00
Instrument Cluster .....	6200.0-00
Lamp Monitor (LKM) .....	6301.0-00
Lights .....	
— Back Up .....	6322.0-00
— Brake .....	6325.0-00
— Front Fog .....	6312.0-00
— Glove Box .....	6332.0-00
— Hazard .....	6313.0-00
— Headlights/Fog Lights .....	6312.0-00
— Interior Lights (IB) (ZKE) .....	6330.0-00
— License .....	6320.0-00
— Makeup Mirror .....	6300.0-01
Park/Tail .....	6314.0-00
Turn/Hazard .....	6313.0-00
Trunk .....	6320.0-00
Underhood .....	6314.0-00
Light Switch Details .....	6300.0-00
On-Board Computer (BCIV) .....	6581.0-00
Power Distribution .....	0670.2-00
Power Assist Steering .....	3240.0-00
Power Mirrors .....	5116.0-00
Power Seats .....	5200.0-00
Power Windows (FH) (ZKE) .....	5133.0-00
Radio .....	6510.0-00
Rear Defogger (IHKR) .....	6450.1-10
Start .....	
— Automatic Transmission .....	1240.0-00
— Manual Transmission .....	1240.0-00
Sunroof (SHD) (ZKE) .....	5410.0-00
Supplemental Restraint System (Air Bag) .....	3234.0-00
Windshield Wiper Control (SWS) (ZKE) .....	6160.0-00
Windshield Washer Jet Heaters .....	6169.0-00
Windshield Wiper Pressure Control (ADV) (ZKE) .....	6164.0-00



## INTRODUCTION

### Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit.

**Important:** The components and wires are not drawn to scale. For instance, a lead with a length of over 1 m can be shown as a lead which is only a few cm long.

**Section 7000.0 Component Location Chart** has all important connectors, ground points and components listed in tabular form. It provides a precise description of the component locations in the vehicle.

**Section 7100.0 Component Location Views** shows the locations of connectors and components which are difficult to localize in photographs. *-This section is not included in the first issue and will be supplied as a supplement.-*

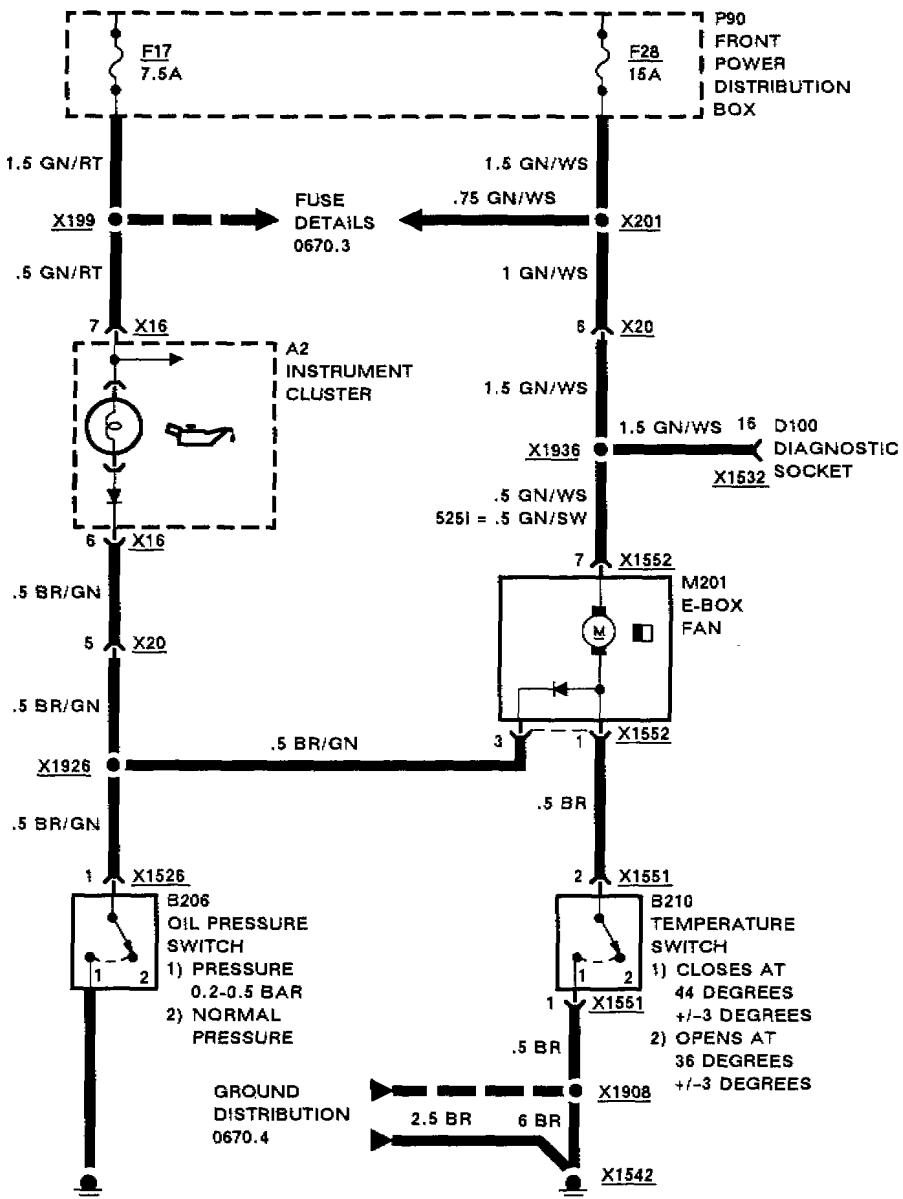
**Section 8500.0 Connector Views** provides diagrams of all connectors with more than three units.

### Example

The following example shows how to read the schematic of the E-box fan.

The diagnostic procedure number for the E-box fan is listed in the index.

The schematic shows the following: (see schematic example)



With the ignition on (terminal 15), voltage is applied via fuse F28 at pin 2 of the E-box fan and via fuse F17 at pin 7 of the instrument cluster. When the temperature switch closes at a temperature above 44 °C, or the oil pressure switch at a pressure below 0.2 bar, ground is switched through to the E-box fan. The power circuit is closed and the fan operates. When the oil pressure switch is closed (oil pressure too low), ground is additionally connected to pin 6 of the instrument cluster and the oil pressure warning lamp lights in the instrument cluster.

General conventions can be explained based on this schematic example.

#### General conventions

1. Switches are always shown in rest position (e.g. B206 and B210).
2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and A2).
3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. M201, B206 and B210).

4. The dashed line between pin 1 and pin 3 at connector X1552 indicates that both pins belong to connector X1552.
5. The dashed line with an arrow at connector X199 indicates that several wires lead to connector X199. All lines leading to a connection are illustrated in section 0670.3 Fuse Details.
6. The uninterrupted line with an arrow at connector X201 indicates that the 0.75 GN/WS wire leads to another circuit. Section 0670.3 Fuse Details shows to which circuit the wire belongs.
7. The dashed lines with arrows at connections X1908 and X1542 indicate that ground is applied. Refer to section 0670.4 Ground Distribution for complete illustration of the line layout. The dashed line to connector X1908 also indicates that several wires lead to this connection.

A complete list of all symbols used can be found in section 0140.0 **Symbols**.

**TROUBLESHOOTING PROCEDURES**

Diagnostic procedures for many of the circuits in this manual are included with the schematics. These procedures are based on a logical problem-solving method. The steps listed below are provided for those circuits that do not include diagnostic procedures. Following these steps will enable you to make a quick diagnosis of the problem.

**1. Verify the Problem**

Operate the problem circuit to check the accuracy of the complaint. Note the symptoms of the inoperative circuit.

**2. Analyze the Problem**

Refer to the schematic of the problem circuit in the ETM. Determine how the circuit is supposed to work by tracing the current path(s) from the power feed through the circuit components to ground. Then, based on the symptoms you noted in step 1 and your understanding of circuit operation, identify one or more causes of the problem.

**3. Isolate the Problem**

Make circuit tests to prove or disprove the preliminary diagnosis made in step 2. Keep in mind that a logical, simple procedure is the key to efficient troubleshooting. Test for the most likely cause of failure first. Try to make tests at points which are easily accessible.

**4. Repair the Problem**

Once the specific problem is identified, make the repair using the proper tools and safe procedures.

**5. Check the Problem**

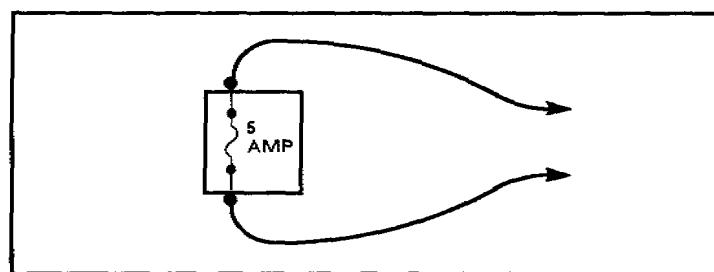
Operate the circuit to check for satisfactory circuit operation. Good repair practice calls for rechecking all circuits you have worked on.

**TROUBLESHOOTING TOOLS**

Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a voltmeter and/or ohmmeter. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit under test. Disconnect the car battery when using an ohmmeter because the battery voltage will cause the ohmmeter to give false readings. Also, do not use an ohmmeter on solid-state components. The voltage that the ohmmeter applies to the circuit could damage these components.

**Fused Jumper Wire**

A jumper wire is made up of an in-line fuse holder connected to a set of test leads. It should have a five ampere fuse. Use it for bypassing open circuits. Never use a jumper wire across any load (motors, etc.). This direct battery short will blow the fuse.



Fused Jumper Wire

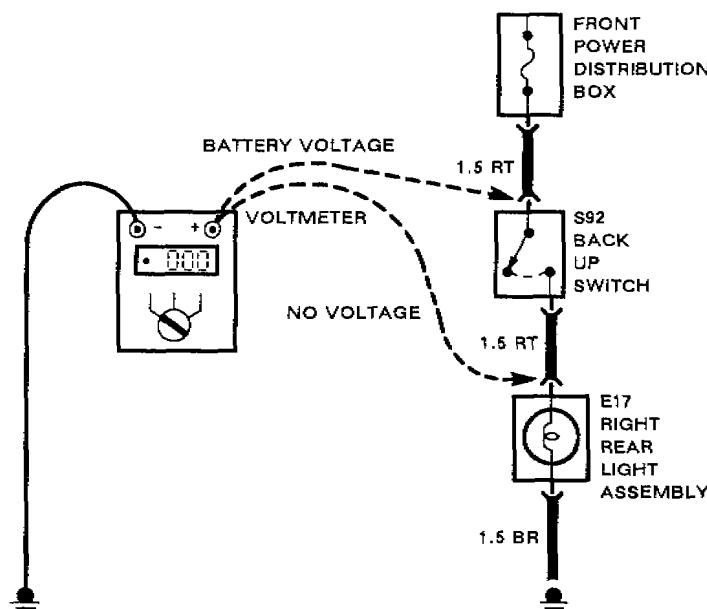
# SYSTEMATIC TROUBLESHOOTING

## TROUBLESHOOTING TESTS

### Voltage Test

This test measures voltage in a circuit. By taking measurements at several points (terminals or connectors) along the circuit, you can isolate the problem.

To take a voltage measurement, connect the negative lead of the voltmeter to the battery's negative terminal or other known good ground. Then connect the positive lead of the voltmeter to the point you want to test. The voltmeter will measure the voltage present at that point in the circuit.

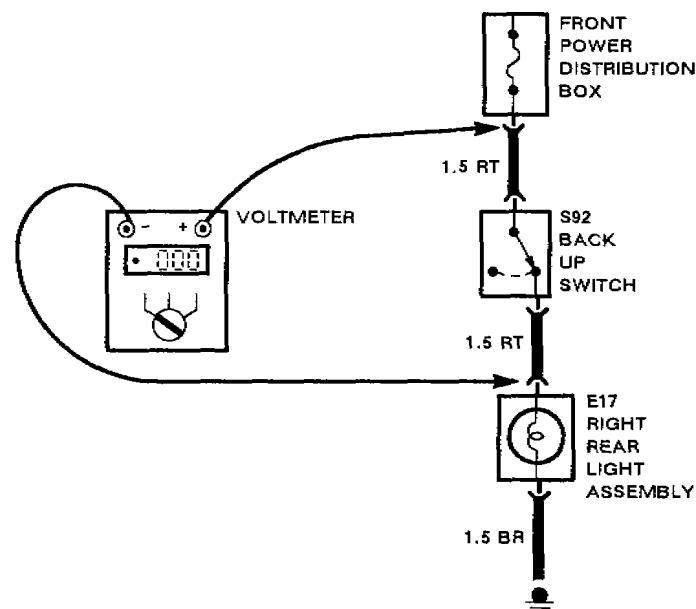


**Voltage Test**

### Voltage Drop Test

Wires, connectors and switches are designed to conduct current with a minimum loss of voltage. A voltage drop of more than one volt indicates a problem.

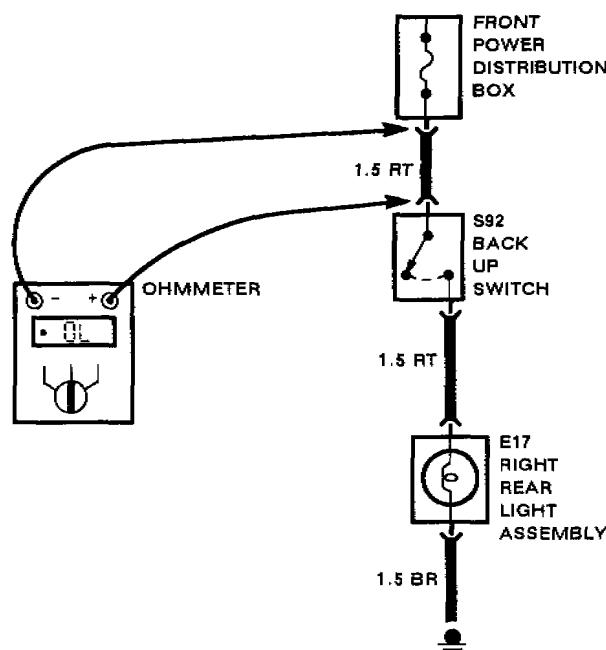
To test for voltage drop, connect the voltmeter leads to connectors at either end of the circuit's suspected problem area. The positive lead should be connected to the connector closest to the power source. The voltmeter will show the voltage drop between these two points. Any switches in the circuit should be on during this test.



**Voltage Drop Test**

### Continuity Test

To perform a continuity test, first disconnect the car battery. Then, while holding the leads together, adjust the ohmmeter to read zero. Connect the ohmmeter leads to connector or terminals at either end of the circuit's suspected problem area. The ohmmeter will show the resistance across that part of the circuit.

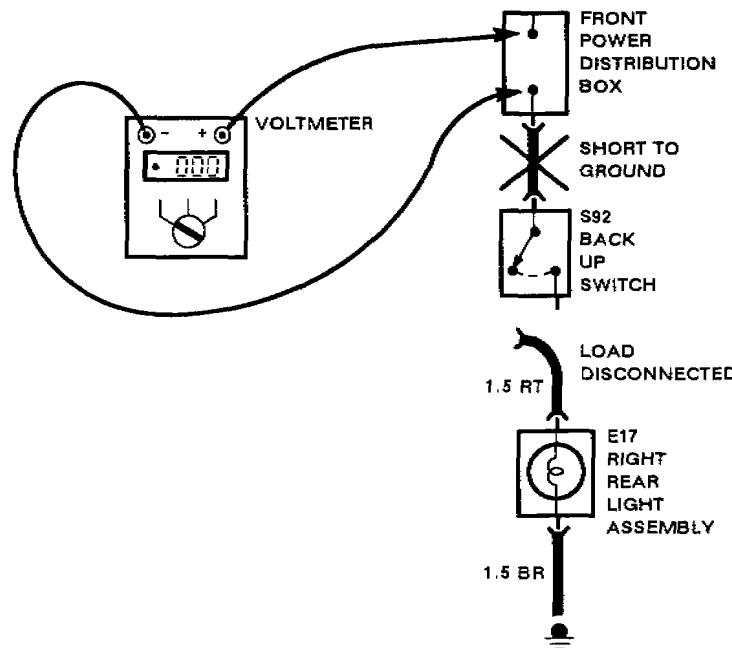


Continuity Test

### Short Test Using Voltmeter

To locate a wiring short to ground, remove the blown fuse and disconnect the load. Connect the voltmeter leads to the fuse terminals. The positive lead should be connected to the terminal closest to the power source.

Starting near the FRONT POWER DISTRIBUTION BOX, move the wire harness back and forth and watch the voltmeter reading. If the voltmeter registers a reading, there is a short to ground in the wiring. Somewhere in the area of the harness being moved, the wire insulation is worn away and the circuit is grounding.



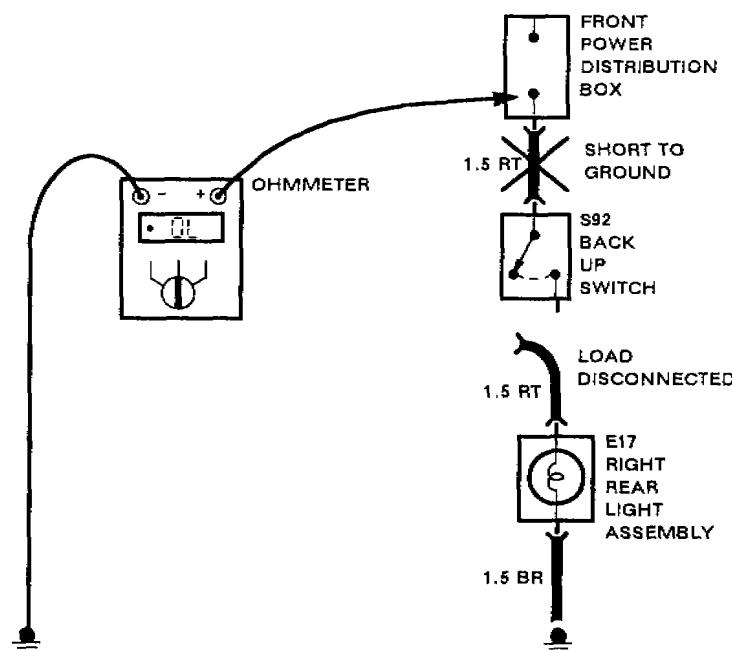
Short Test Using Voltmeter



## SYSTEMATIC TROUBLESHOOTING

### Short Test Using Ohmmeter

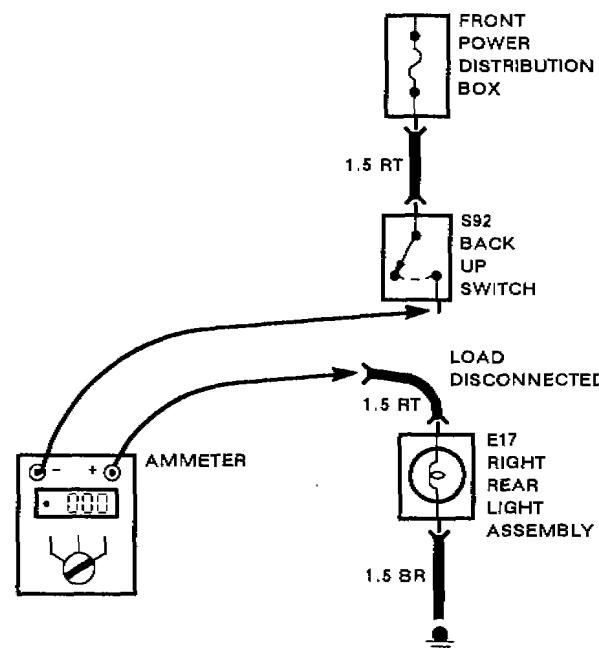
Disconnect the battery. While holding the leads together, adjust the ohmmeter to read zero. Remove the blown fuse and disconnect the load. Connect one lead of the ohmmeter to the fuse terminal that is closest to the load. Connect the other lead to a known good ground. Starting near the FRONT POWER DISTRIBUTION BOX, move the wire harness back and forth and watch the ohmmeter reading. Low or no resistance indicates a short to ground in the wiring. Infinitely high resistance indicates no short.



Short Test Using Ohmmeter

### Current Test Using Ammeter

To measure the current, connect the ammeter leads to the connector or terminals in series with the circuit. The ammeter will show the current through the circuit.



Current Test Using Ammeter

## Wiring test with analogscope

**Measuring Instrument:** BMW SERVICE TESTER

**Test leads:**      FREQ OFF (+), blue  
                        Terminal 1, black  
                        D+, blue

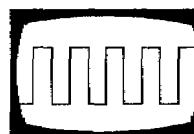
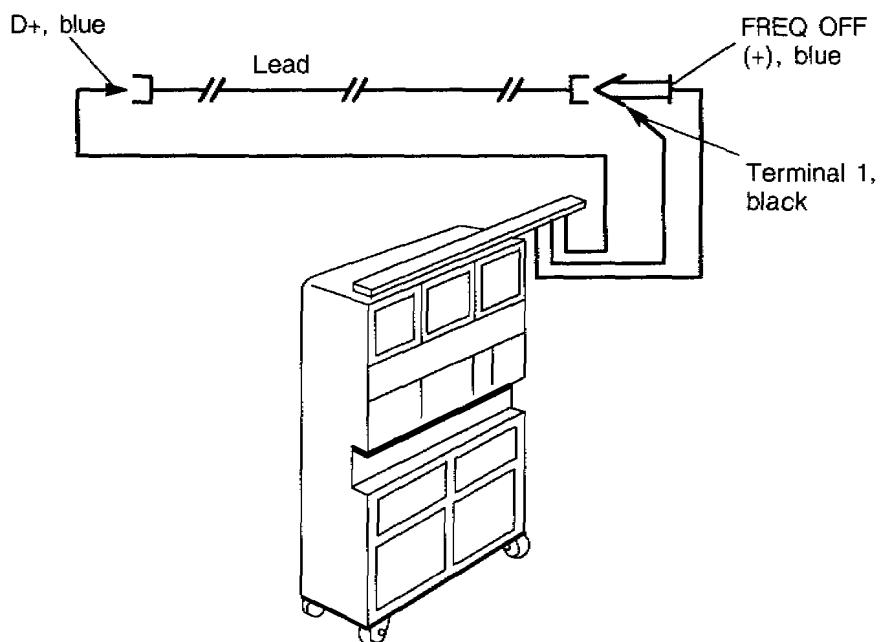
Interruptions which occur briefly are measured. Connect universal test lead and leads for frequency testing to the BMW SERVICE TESTER.

A frequency is applied via the end of the wire to be tested. It is then measured with the analogscope at the other end. Move the wire harness back and forth during testing.

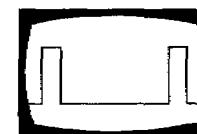
If the wire is OK, the analogscope will indicate a square wave signal with a uniform progression. In the case of fault, the signal will be unevenly interrupted.

**Operation:**  M for multimeter, 22 for analogscope, 13 for frequency output. Apply any frequency and then press acknowledgement button twice.

Wiring test with analogscope



Correct display  
on analog scope



Display when  
a break occurs

**Potentiometer test with analogscope****Measuring Instrument:** BMW SERVICE TESTER

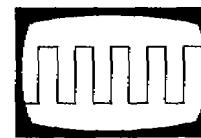
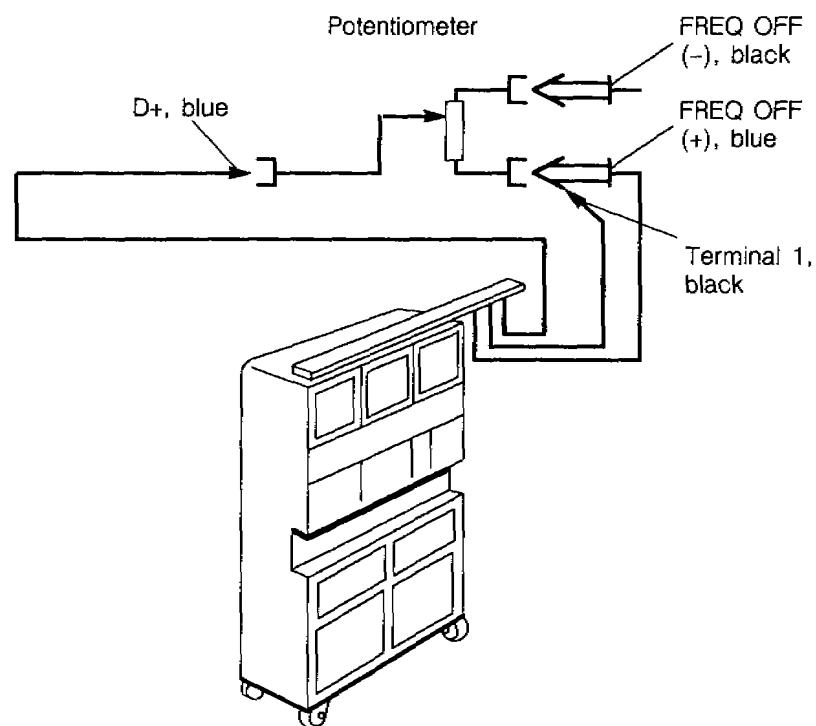
**Test leads:**

- FREQ OFF (+), blue
- FREQ OFF (-), black
- Terminal 1, black
- D+, blue

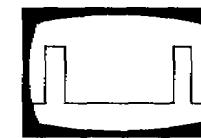
Similar to the wiring test with the analogscope. In this case, however, the measurement is read off at the wiper tap.

To conduct the test, move the potentiometer through its entire measuring range. If the potentiometer is faulty, the square wave signal on the analogscope will be unevenly interrupted.

**Operation:** **M** for multimeter, 22 for analogscope, 13 for frequency output. Apply any frequency and press acknowledgement button twice.

**Potentiometer test with analogscope**

Correct display  
on analog scope



Display when  
a break occurs

## Simulating speed signal

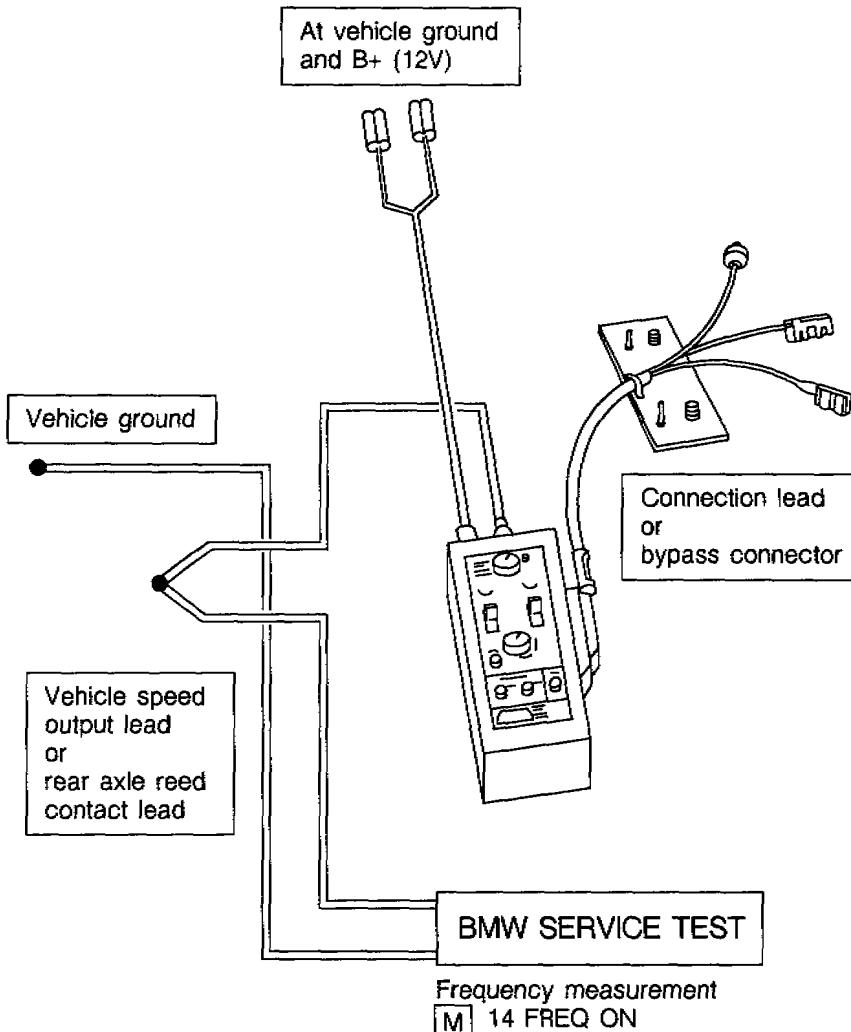
**Measuring equipment:** BMW Simulator for instrument cluster and BMW SERVICE TESTER

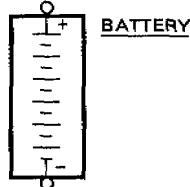
**Test leads (tester):** FREQ ON (+), yellow  
FREQ ON (-), black

The speed signal can be entered continuously variable with the BMW simulator for the instrument cluster.

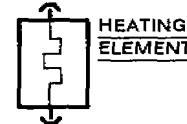
Connect 25-pole bypass connector for frequency simulation (or connection lead for instrument test) to the simulator. Connect the power supply lead of the simulator to the vehicle battery. Connect frequency output of the simulator with the vehicle wire for the speed signal (speedometer A-wire or wire at rear axle reed contact). Set frequency at the simulator.

The frequency can also be measured with the BMW SERVICE TESTER. Connect FREQ ON (-) lead to vehicle ground. Connect FREQ ON (+) lead in parallel to the frequency output of the simulator. **M** Select 14 frequency test, the set frequency is indicated.





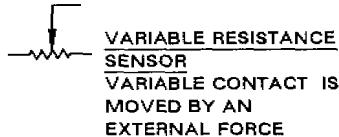
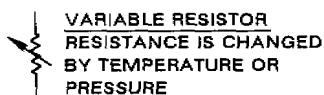
BATTERY

ZENER DIODE  
TO REGULATE VOLTAGEHEATING  
ELEMENT

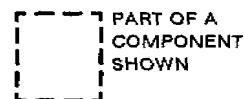
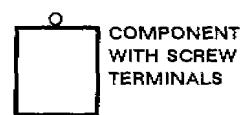
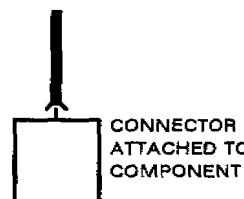
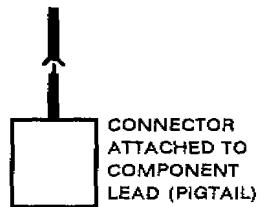
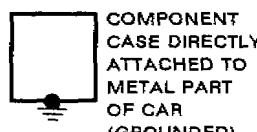
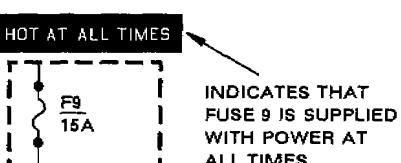
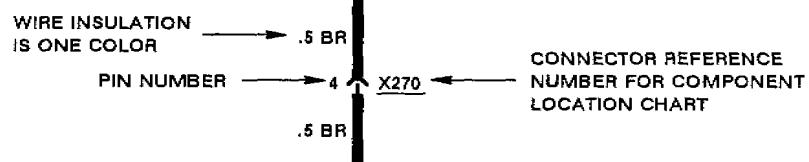
FUSE

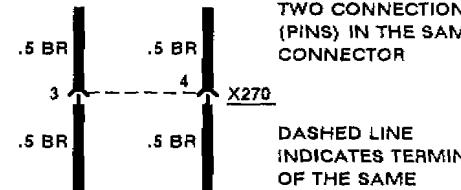
LIGHT  
EMITTING  
DIODELOUDSPEAKER  
OR HORNCIRCUIT  
BREAKER

LIGHT

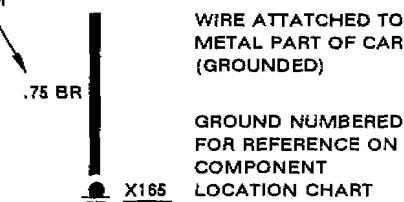
COIL OR  
SOLENOIDVARIABLE RESISTANCE  
SENSOR  
VARIABLE CONTACT IS  
MOVED BY AN  
EXTERNAL FORCEBIFILAMENT  
LIGHTSOLENOID  
CONTROLLER  
VALVE OR  
CLUTCH  
SOLENOIDVARIABLE RESISTOR  
RESISTANCE IS CHANGED  
BY TEMPERATURE OR  
PRESSUREPERMANENT  
MAGNET  
MOTOR  
ONE SPEEDDIODE  
CURRENT CAN FLOW ONLY  
IN DIRECTION OF ARROWPERMANENT  
MAGNET  
MOTOR  
TWO SPEED

31

**SYMBOLS**ENTIRE  
COMPONENT  
SHOWNPART OF A  
COMPONENT  
SHOWNCOMPONENT  
WITH SCREW  
TERMINALSCONNECTOR  
ATTACHED TO  
COMPONENTCONNECTOR  
ATTACHED TO  
COMPONENT  
LEAD (PIGTAI)COMPONENT  
CASE DIRECTLY  
ATTACHED TO  
METAL PART  
OF CAR  
(GROUNDED)INDICATES THAT  
FUSE 9 IS SUPPLIED  
WITH POWER AT  
ALL TIMESWIRE INSULATION  
IS ONE COLOR WITH  
ANOTHER COLOR  
STRIPE  
(GREEN WITH WHITE)CONNECTOR REFERENCE  
NUMBER FOR COMPONENT  
LOCATION CHART

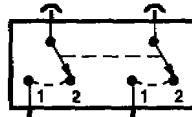
 A WAVY LINE MEANS  
WIRE IS CONTINUED
TWO CONNECTIONS  
(PINS) IN THE SAME  
CONNECTORDASHED LINE  
INDICATES TERMINALS  
OF THE SAME  
CONNECTOR

TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START
30	VOLTAGE: SUPPLIED AT ALL TIMES
15	VOLTAGE: IGNITION SWITCH IN RUN OR START
15E	VOLTAGE: IGNITION SWITCH IN RUN
R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

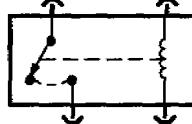
WIRE SIZE IN MM<sup>2</sup>WIRE ATTACHED TO  
METAL PART OF CAR  
(GROUNDED)GROUND NUMBERED  
FOR REFERENCE ON  
COMPONENT  
LOCATION CHART



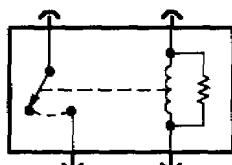
ONE POLE,  
TWO POSITION  
SWITCH



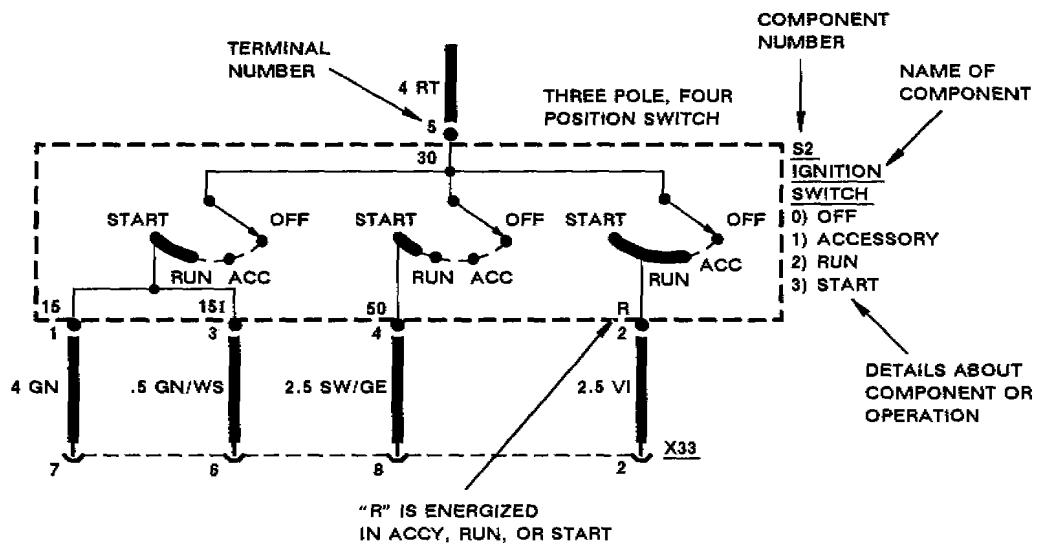
SWITCHES THAT MOVE  
TOGETHER  
DASHED LINE SHOWS  
A MECHANICAL  
CONNECTION BETWEEN  
SWITCHES



WHEN COIL IS  
ENERGIZED, SWITCH  
IS PULLED CLOSED

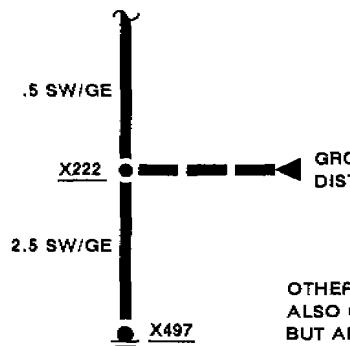
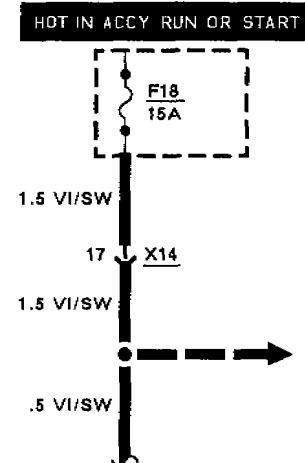


RELAY WITH  
RESISTOR ACROSS  
COIL

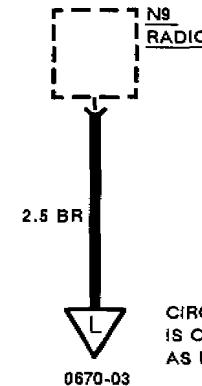


TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START
30	VOLTAGE: SUPPLIED AT ALL TIMES
15	VOLTAGE: IGNITION SWITCH IN RUN OR START
15I	VOLTAGE: IGNITION SWITCH IN RUN
R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN, OR START

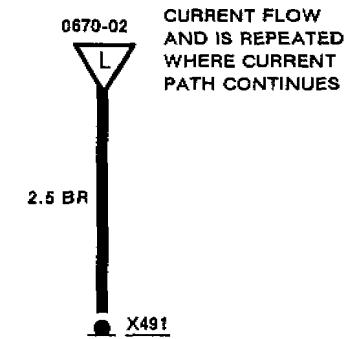
## SYMBOLS



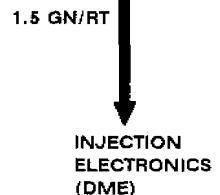
OTHER CIRCUITS WHICH ARE ALSO GROUNDED AT X497, BUT ARE NOT SHOWN, CAN BE REFERENCED IN GROUND DISTRIBUTION



CIRCUIT PATH IS CONTINUED AS LABELED



CIRCUIT REFERENCE-A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT

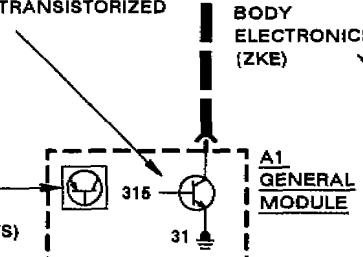


HOT IN ACCY RUN OR START

F44 30A

REAR POWER DISTRIBUTION BOX

TESTER COMMAND NUMBER- ENTERING 316 FOR THE GIVEN ZKE SYSTEM WILL ACTIVATE THE TRANSISTORIZED SWITCH



SYMBOL INDICATES A SOLID STATE DEVICE (INCLUDES ONLY ELECTRONIC PARTS)

CIRCUIT SHOWN IS INCOMPLETE COMPLETE CIRCUIT CAN BE REFERENCED IN CENTRAL BODY ELECTRONICS (ZKE)



## POWER DISTRIBUTION CHARTS

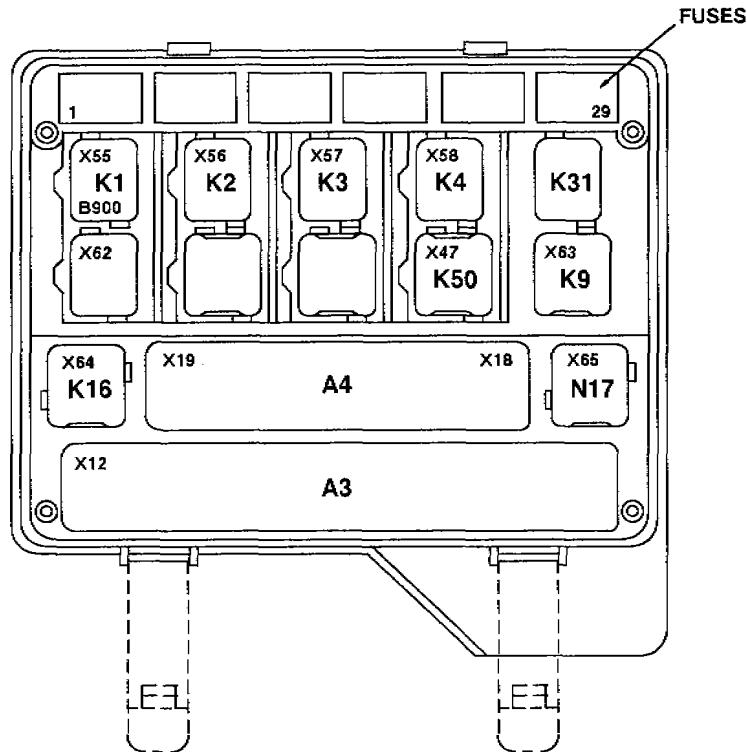
### FRONT POWER DISTRIBUTION BOX, AUXILIARY RELAY BOX

2/89

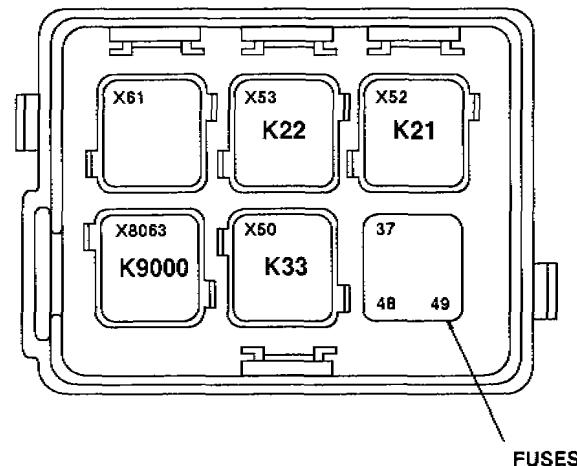
0670.0-00

1989

P90 FRONT POWER DISTRIBUTION BOX



P92 AUXILARY RELAY BOX





## POWER DISTRIBUTION CHARTS

### FRONT POWER DISTRIBUTION BOX, AUXILIARY RELAY BOX

COMPONENTS IN FRONT POWER DISTRIBUTION BOX		
NUMBER	CONNECTOR	DESCRIPTION
A3	X12	LAMP CONTROL MODULE
A4	X18, X19	CHECK CONTROL MODULE
K1	X55	STARTER RELAY
B900	X55	JUMPER PLUG (MANUAL)
K2	X56	HORN RELAY
K3	X57	UNLOADER RELAY, KLR
K4	X58	BLOWER RELAY
	X62	NOT IN U.S.
K9	X63	UNLOADER RELAY, KL 15
K16	X64	HAZARD FLASHER RELAY
K50	X47	WATER PUMP RELAY
K31		PRESENTLY NOT AVAILABLE
N17	X65	CRASH CONTROL UNIT

COMPONENTS IN AUXILIARY RELAY BOX		
NUMBER	CONNECTOR	DESCRIPTION
K21	X52	NORMAL SPEED RELAY
K22	X53	HIGH SPEED RELAY
K33	X50	AIR CONDITIONING RELAY
K9000	X8063	PHONE HORN ALERT RELAY (WITH CELLULAR TELEPHONE PROVISIONS)
	X61	NOT IN U.S.



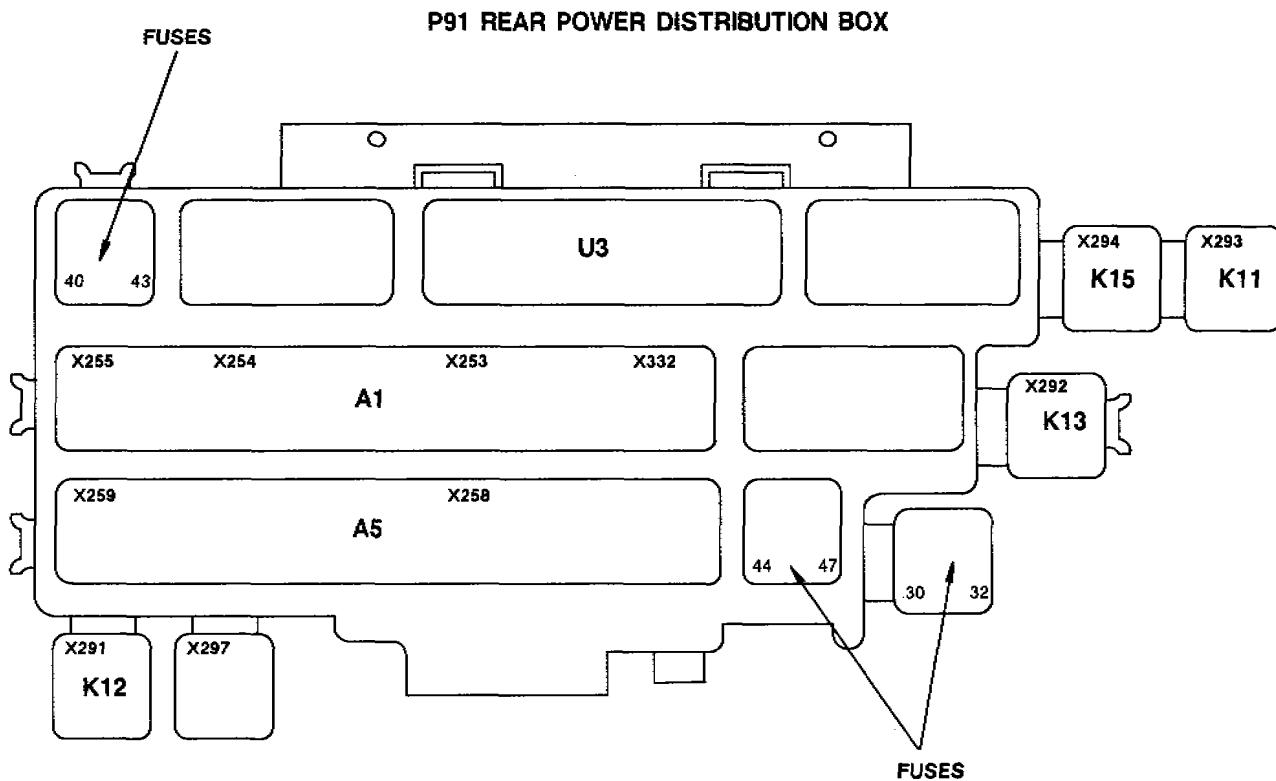
## POWER DISTRIBUTION CHARTS

### REAR POWER DISTRIBUTION BOX

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0670.0-02

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## POWER DISTRIBUTION CHARTS

### REAR POWER DISTRIBUTION BOX

2/89

0670.0-03

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COMPONENTS IN REAR POWER DISTRIBUTION BOX		
NUMBER	CONNECTOR	DESCRIPTION
A1	X253, X254 X255, X332	GENERAL MODULE
A5	X258, X259	RELAY MODULE
K11	X293	WIPER RELAY
K12	X291	WIPER PRESSURE CONTROL RELAY (ADV)
K13	X292	REAR DEFOGGER RELAY
K15	X294	ELECTRIC POWER PROTECTION RELAY
U3	X8062	TRANSCEIVER TELEPHONE IF EQUIPPED
	X297	NOT IN U.S.



## FUSE CHARTS

2/89

0670.1-00

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FUSE	CIRCUIT PROTECTED
F1 15A	3450.0 ABS Antilock Brake System (Also Fuse 17) 6200.0 Instrument Cluster Check Control (K/CC) (Also Fuses 15, 17, 20) 6301.0 Lamp Monitor (LKM) (Also Fuses 2, 3, 4, 5, 7, 10, 11, 13, 14, 15) 6325.0 Brake Lights (Also Fuse 15) 6571.0 Cruise Control (Tempomat) (Also Fuse 17)
F2 7.5A	6300.0 Light Switch Details (Also Fuses 3, 4, 5, 24) 6301.0 Lamp Monitor (LKM) (Also Fuses 1, 3, 4, 5, 7, 10, 11, 13, 14, 15) 6312.0 Headlights/Fog Lights (Also Fuses 3, 5, 7, 10, 11, 13, 14, 37) 6313.0 Turn/Hazard Lights (Also Fuses 3, 6, 13, 14)
F3 7.5A	6100.0 Central Body Electronics (ZKE) (Also Fuses 5, 15, 17, 30, 44, 47) 6300.0 Light Switch Details (Also Fuses 2, 4, 5, 24) 6301.0 Lamp Monitor (LKM) (Also Fuses 1, 2, 4, 5, 7, 10, 11, 13, 14, 15) 6312.0 Headlights/Fog Lights (Also Fuses 2, 5, 7, 10, 11, 13, 14, 37) 6313.0 Turn/Hazard Lights (Also Fuses 2, 6, 13, 14)
F4 7.5A	6300.0 Light Switch Details (Also Fuses 2, 3, 5, 24) 6301.0 Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 5, 7, 10, 11, 13, 14, 15) 6314.0 Park/Tail/Underhood Lights (Also Fuses 5, 15, 20)
F5 10A	6100.0 Central Body Electronics (ZKE) (Also Fuses 3, 15, 17, 30, 44, 47) 6300.0 Light Switch Details (Also Fuses 2, 3, 4, 24) 6301.0 Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 4, 7, 10, 11, 13, 14, 15) 6312.0 Headlights/Fog Lights (Also Fuses 2, 3, 7, 10, 11, 13, 14, 37) 6314.0 Park/Tail/Underhood Lights (Also Fuses 4, 15, 20) 6320.0 License/Trunk Lights (Also Fuses 15, 21) 6330.0 ZKE Interior Lights (Also Fuses 15, 17, 21, 30, 44) 6332.0 Glove Box Light/Cigar Lighter/Charging Plug (Also Fuses 18, 21, 26)
F6 7.5A	6313.0 Turn/Hazard Lights (Also Fuses 2, 3, 13, 14)
F7 15A	6301.0 Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 4, 5, 10, 11, 13, 14, 15) 6312.0 Headlights/Fog Lights (Also Fuses 2, 3, 5, 10, 11, 13, 14, 37)

FUSE	CIRCUIT PROTECTED	
F9 15A	6133.0	Horn
	6450.1	Integrated Climate Regulation (IHKR) (Also Fuses 19, 20, 24, 29, 46)
F10 7.5A	6301.0	Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 4, 5, 7, 11, 13, 14, 15)
	6312.0	Headlights/Fog Lights (Also Fuses 2, 3, 5, 7, 11, 13, 14, 37)
F11 7.5A	6301.0	Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 4, 5, 7, 10, 13, 14, 15)
	6312.0	Headlights/Fog Lights (Also Fuses 2, 3, 5, 7, 10, 13, 14, 37)
F12 15A	5116.0	Power Mirrors
	6169.0	Windshield Washer Jet Heaters
	6322.0	Back Up Lights
F13 7.5A	6301.0	Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 4, 5, 7, 10, 11, 14, 15)
	6312.0	Headlights/Fog Lights (Also Fuses 2, 3, 5, 7, 10, 11, 14, 37)
	6313.0	Turn/Hazard Lights (Also Fuses 2, 3, 6, 13,)
F14 7.5A	6301.0	Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 4, 5, 7, 10, 11, 13, 15)
	6312.0	Headlights/Fog Lights (Also Fuses 2, 3, 5, 7, 10, 11, 13, 37)
	6313.0	Turn/Hazard Lights (Also Fuses 2, 3, 6, 13,)
F15 7.5A	6100.0	Central Body Electronics (ZKE) (Also Fuses 3, 5, 17, 30, 44, 47)
	6160.0	ZKE Windshield Wiper Control (SWS) (Also Fuse 44)
	6164.0	ZKE Windshield Wiper Pressure Control (ADV) (Also Fuses 22, 44)
	6200.0	Instrument Cluster/Check Control (K/CC) (Also Fuses 1, 17, 20)
	6301.0	Lamp Monitor (LKM) (Also Fuses 1, 2, 3, 4, 5, 7, 10, 11, 13, 14)
	6314.0	Park/Tail/Underhood Lights (Also Fuses 4, 5, 20)
	6320.0	License/Trunk Lights (Also Fuses 5, 21)
	6325.0	Brake Lights (Also Fuse 1)
	6330.0	ZKE Interior Lights (Also Fuses 5, 17, 21, 30, 44)
	6581.0	On Board Computer (BCIV) (Also Fuses 17, 20)
F16 30A	5203.0	Heated Seats

FUSE	CIRCUIT PROTECTED
F17 7.5A	1210.2 Injection Electronics (DME 1.3) (Also Fuse 23) 1230.0 Charging System 1240.0 Start 1290.0 E-Box Fan (Also Fuse 28) 2460.0 Electronic Transmission Control (AEGS) 3450.0 Antilock Brake System (ABS) (Also Fuse 1) 5120.0 ZKE Door Lock Heating (TSH) (Also Fuse 30) 5133.0 ZKE Power Windows (FH) (Also Fuses 30, 31, 47) 5410.0 ZKE Sunroof (SHD) (Also Fuses 30, 31, 47) 6100.0 Central Body Electronics (ZKE) (Also Fuses 3, 5, 15, 30, 44, 47) 6200.0 Instrument Cluster/Check Control (K/CC) (Also Fuses 1, 15, 20) 6330.0 ZKE Interior Lights (IB) (Also Fuses 5, 15, 21, 30, 44) 6571.0 Cruise Control (Tempomat) (Also Fuse 1) 6581.0 On Board Computer (BCIV) (Also Fuses 15, 20)
F18 15A	6332.0 Glove Box Light/Cigar Lighter/Charging Plug (Also Fuses 5, 21, 26) 6510.0 Radio/CD Player (Provisions) (Also Fuse 41) 6561.0 Cellular Telephone (Provisions) (Also Fuses 31 and 48)
F19 30A	6450.1 Integrated Climate Regulation (IHKR) (Also Fuses 9, 20, 24, 29, 46)
F20 7.5A	6200.0 Instrument Cluster/Check Control (K/CC) (Also Fuses 1, 15, 17) 6314.0 Park/Tail/Underhood Lights (Also Fuses 4, 5, 15) 6450.1 Integrated Climate Regulation (IHKR) (Also Fuses 9, 19, 24, 29, 46) 6581.0 On Board Computer (BCIV) (Also Fuses 15, 17)
F21 7.5A	6320.0 License/Trunk Lights (Also Fuses 5, 15) 6330.0 ZKE Interior Lights (IB) (Also Fuses 5, 15, 17, 30, 44) 6332.0 Glove Box Light/Cigar Lighter/Charging Plug (Also Fuses 5, 18, 26)
F22 30A	6164.0 ZKE Windshield Wiper Pressure Control (ADV) (Also Fuses 15, 44)



## FUSE CHARTS

FUSE	CIRCUIT PROTECTED
F23 7.5A	1210.2 Injection Electronics (DME 1.3) (Also Fuse 17)
F24 15A	6300.0 Light Switch Details (Also Fuses 2, 3, 4, 5) 6450.1 Integrated Climate Regulation (IHKR) (Also Fuses 9, 19, 20, 29, 46)
F25 30A	6454.0 Auxiliary Fan (Also Fuse 29)
F26 30A	6332.0 Glove Box Light/Cigar Lighter/Charging Plug ,(Also Fuses 5, 18, 21)
F28 15A	1290.0 E-Box Fan (Also Fuse 17) 3240.0 Power Assist Steering
F29 7.5A	6450.1 Integrated Climate Regulation (IHKR) (Also Fuses 9, 19, 20, 24, 46) 6454.0 Auxiliary Fan (Also Fuse 25)
F30 7.5A	5120.0 ZKE Door Lock Heating (TSH) (Also Fuse 17) 5126.0 ZKE Central Locking (ZV) (Also Fuses 31, 47) 5133.0 ZKE Power Windows (FH) (Also Fuses 17, 31, 47) 5410.0 ZKE Sunroof (SHD) (Also Fuses 17, 31, 47) 6100.0 Central Body Electronics (ZKE) (Also Fuses 3, 5, 15, 17, 44, 47) 6330.0 ZKE Interior Lights (Also Fuses 5, 15, 17, 21, 44)
F31 7.5A	5126.0 ZKE Central Locking (ZV) (Also Fuses 30, 47) 5133.0 ZKE Power Windows (FH) (Also Fuses 17, 30, 47) 5410.0 ZKE Sunroof (SHD) (Also Fuses 17, 30, 47) 6561.0 Cellular Telephone (Provisions) (Also Fuses 18, 48)
F32 7.5A	NOT USED
F37 5A	NOT USED
F40 15A	NOT USED
F41 30A	6510.0 Radio/CD Player (Provisions) (Also Fuse 18)

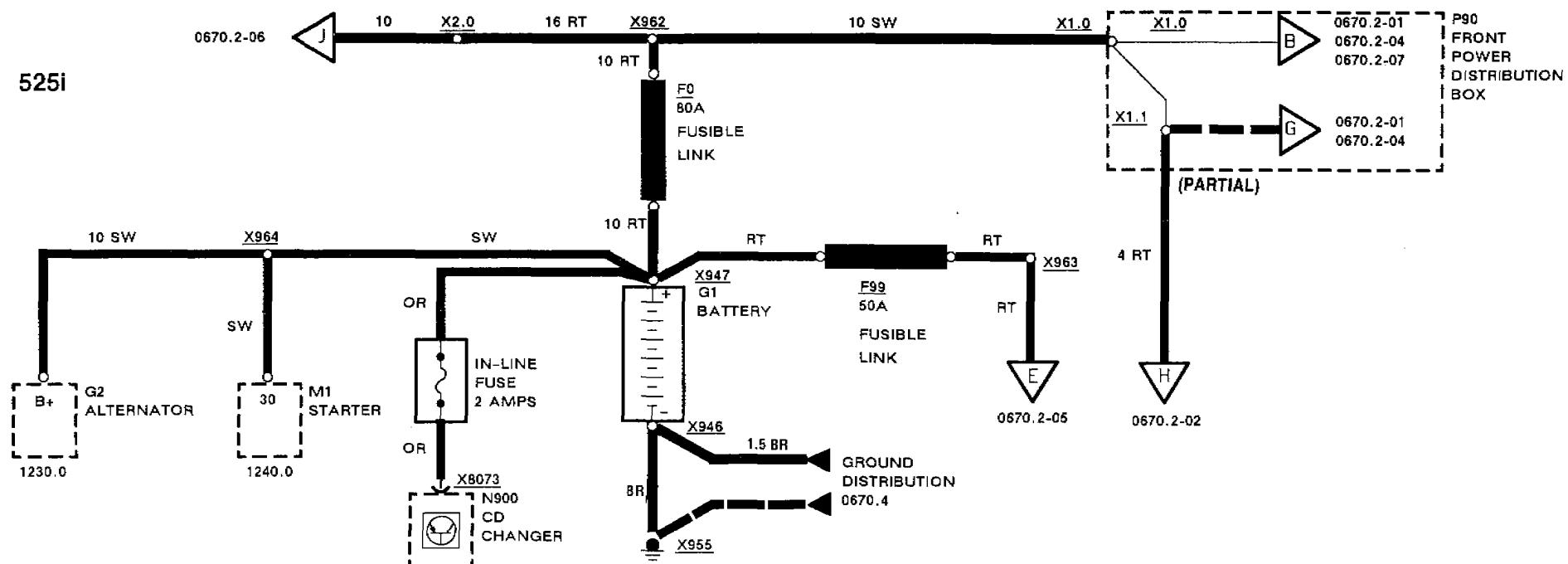
FUSE	CIRCUIT PROTECTED	
F42 30A	5200.0	Power Seats (Also Fuse 43)
F43 30A	5200.0	Power Seats (Also Fuse 42)
F44 30A	6100.0	Central Body Electronics (ZKE) (Also Fuses 3, 5, 15, 17, 30, 47)
	6160.0	ZKE Windshield Wiper Control (SWS) (Also Fuse 15)
	6164.0	ZKE Windshield Wiper Pressure Control (ADV) (Also Fuses 15, 22)
	6330.0	ZKE Interior Lights (IB) (Also Fuses 5, 15, 17, 30)
F46 30A	6450.1	Integrated Climate Regulation (IHKR) (Also Fuses 9, 19, 20, 24, 29)
F47 30A	5126.0	ZKE Central Locking (ZV) (Also Fuses 30, 31)
	5133.0	ZKE Power Windows (FH) (Also Fuses 17, 30, 31)
	5410.0	ZKE Sunroof (SHD) (Also Fuses 17, 30, 31)
	6100.0	Central Body Electronics (ZKE) (Also Fuses 3, 5, 15, 17, 30, 44)
F48 15A	6561.0	Cellular Telephone (Provisions) (Also Fuses 18, 31)
F49	NOT USED	



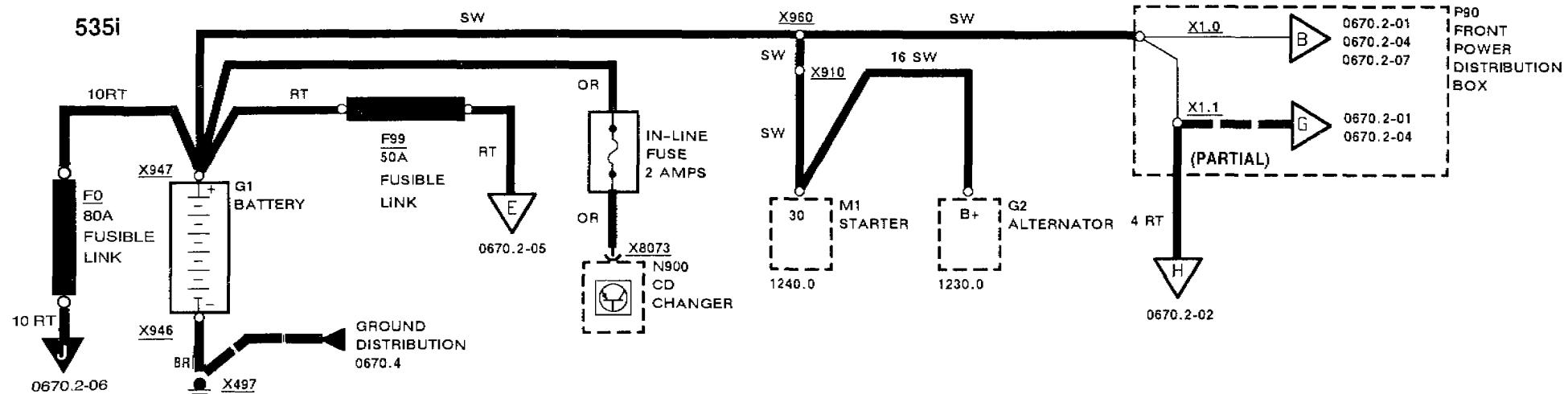
## POWER DISTRIBUTION

### FRONT POWER DISTRIBUTION BOX

525i



535i





# POWER DISTRIBUTION

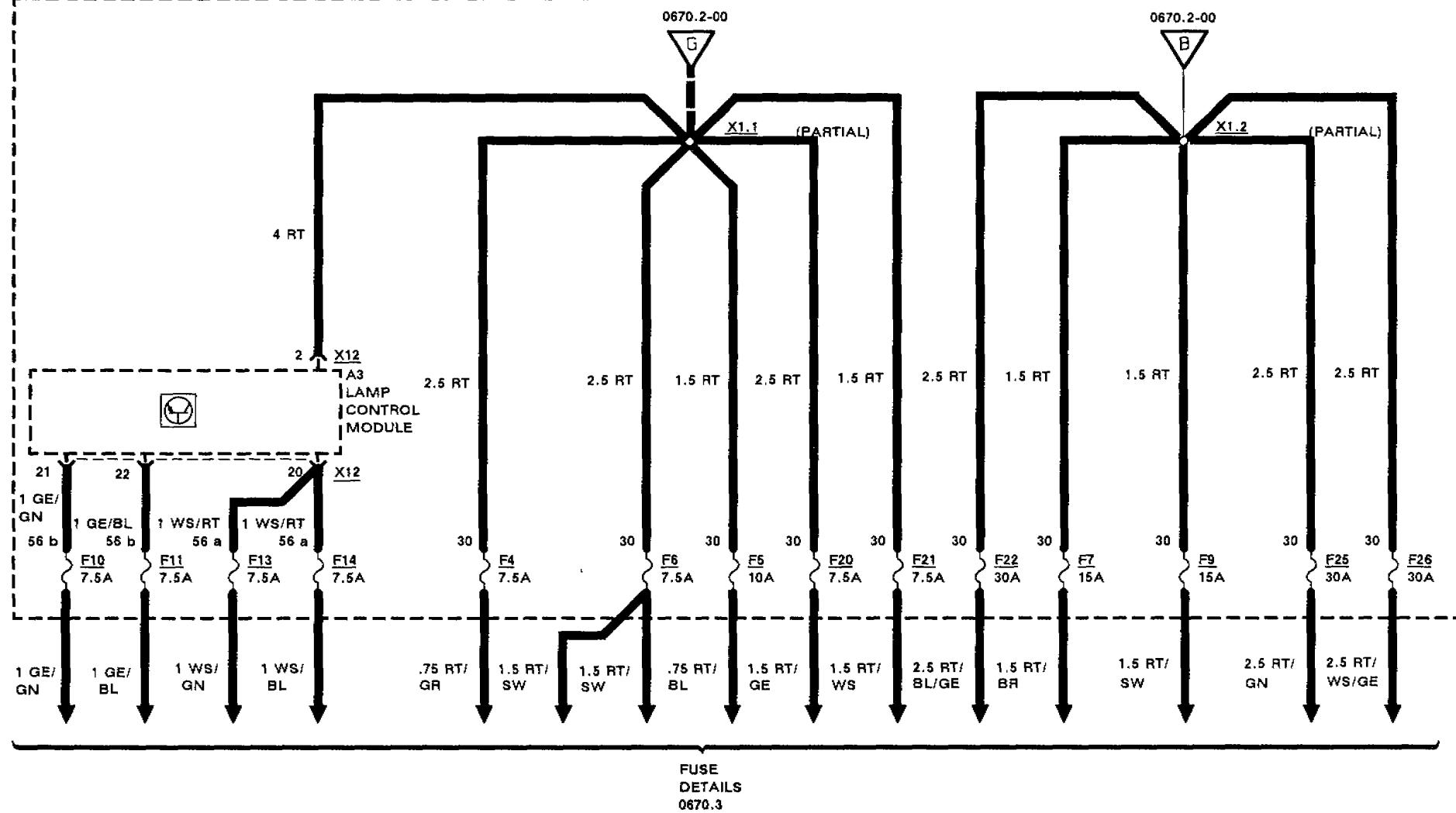
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2/89

0670.2-01

1989

P90  
FRONT  
POWER  
DISTRIBUTION  
BOX

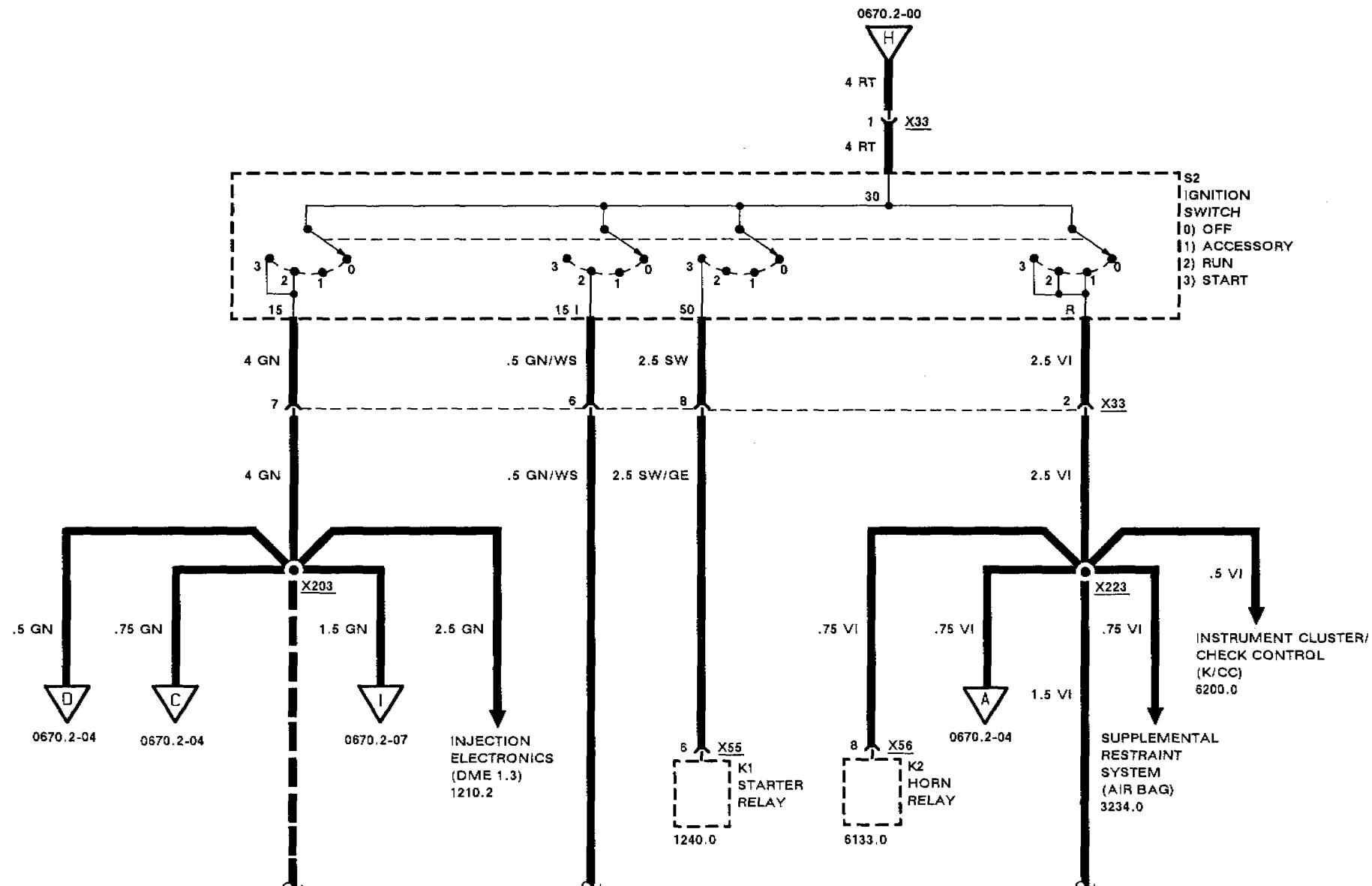




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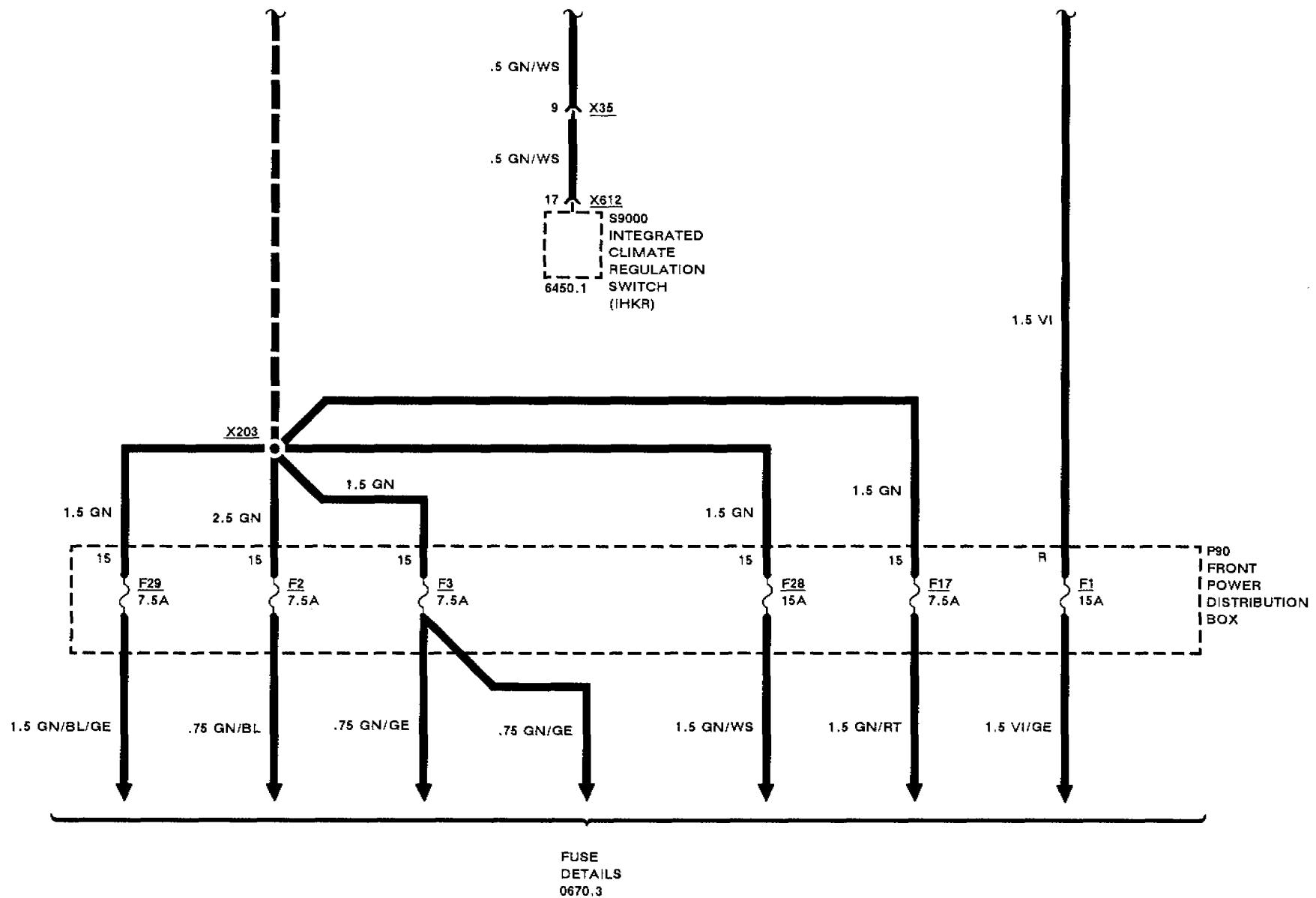
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2/89



0670.2-02

1989

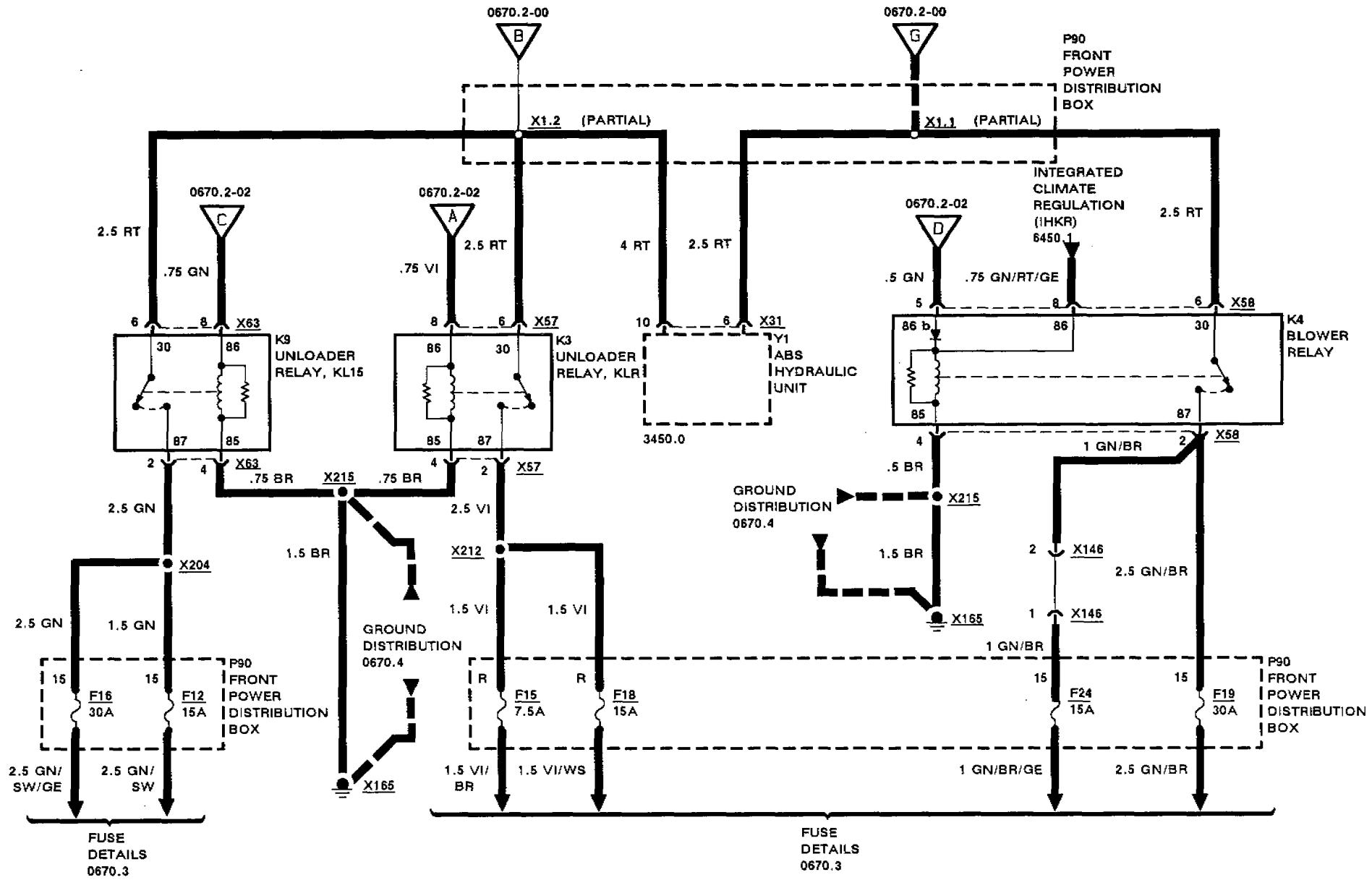




## **POWER DISTRIBUTION**

#### **FRONT POWER DISTRIBUTION BOX**

2/89



0670.2-04

6861



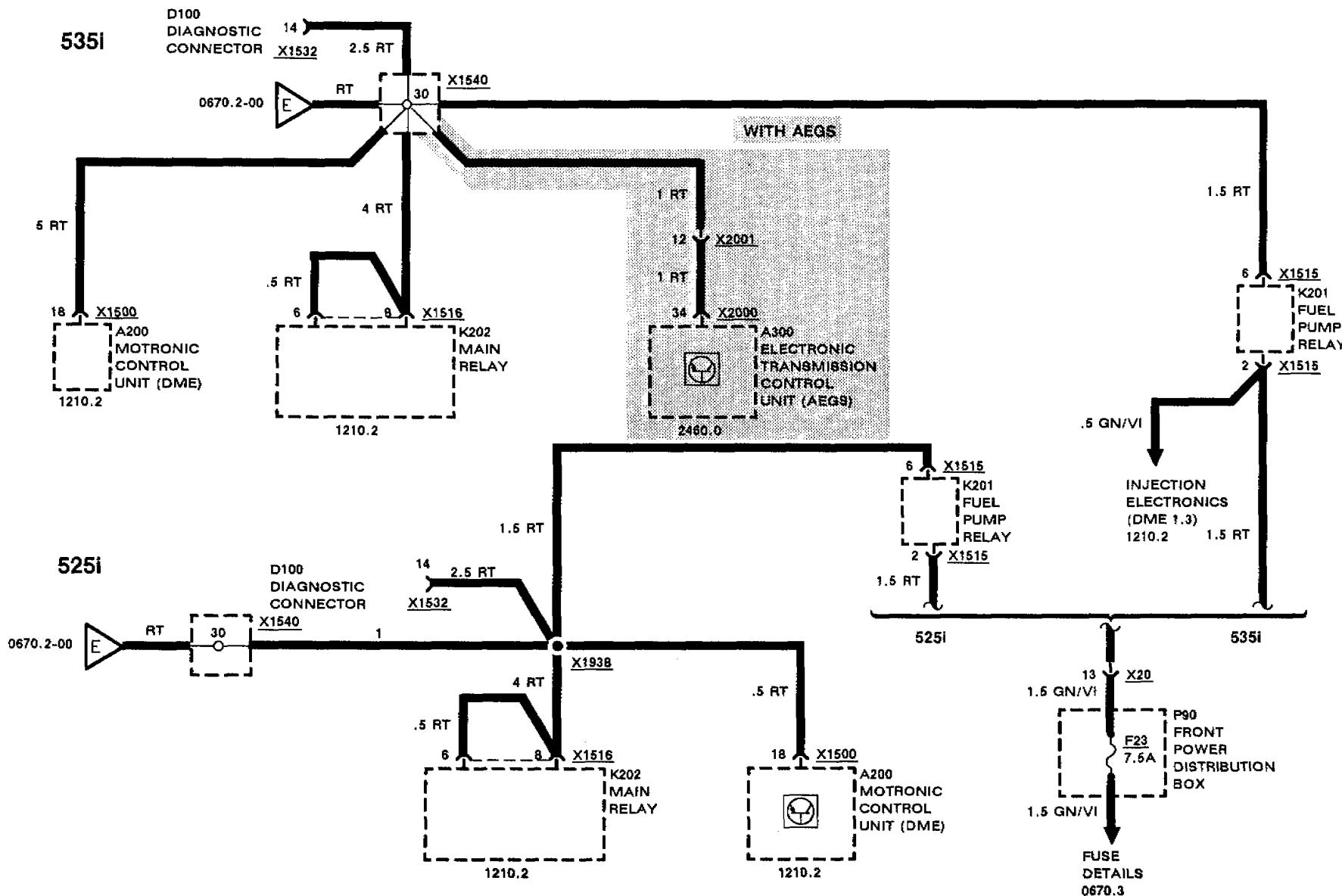
## POWER DISTRIBUTION

### FRONT POWER DISTRIBUTION BOX

2/89

0670.2-05

1989

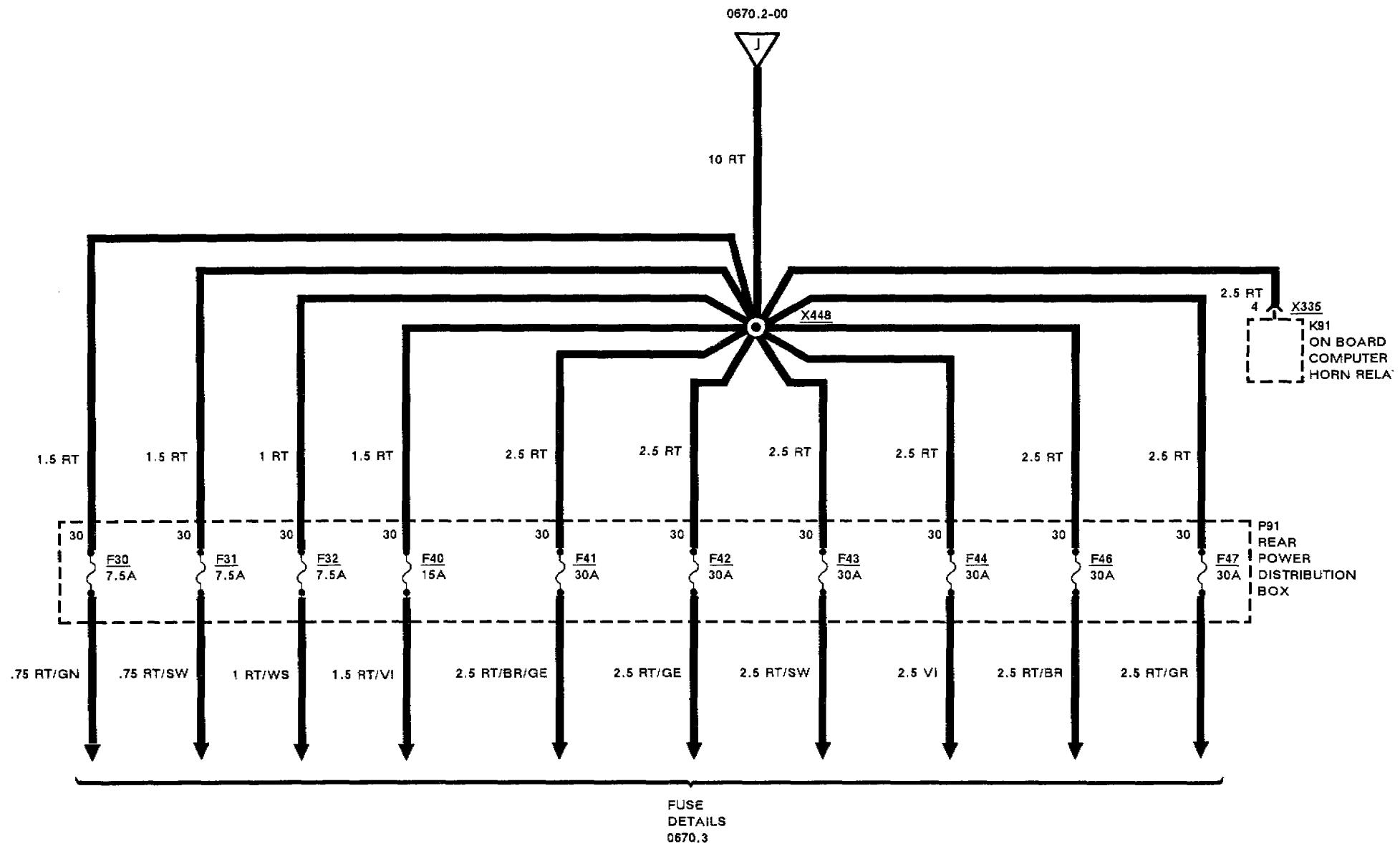




# POWER DISTRIBUTION

## REAR POWER DISTRIBUTION BOX

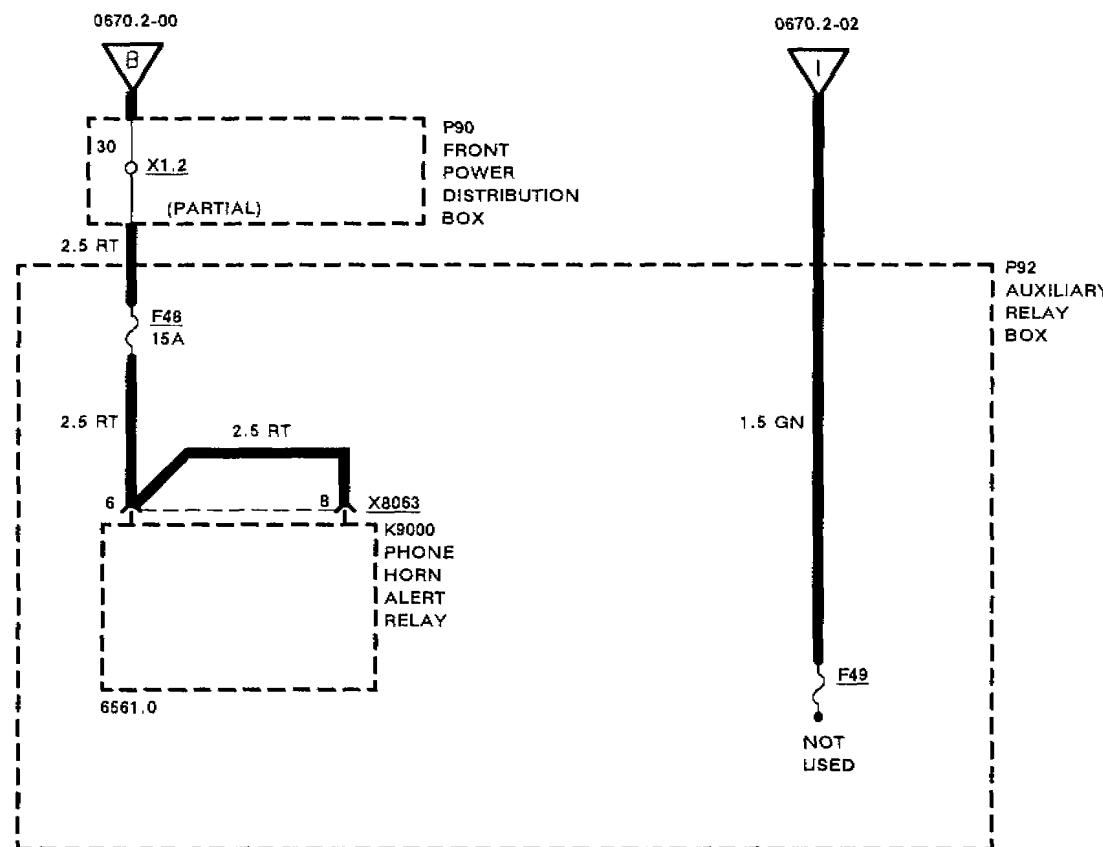
2/89





## POWER DISTRIBUTION

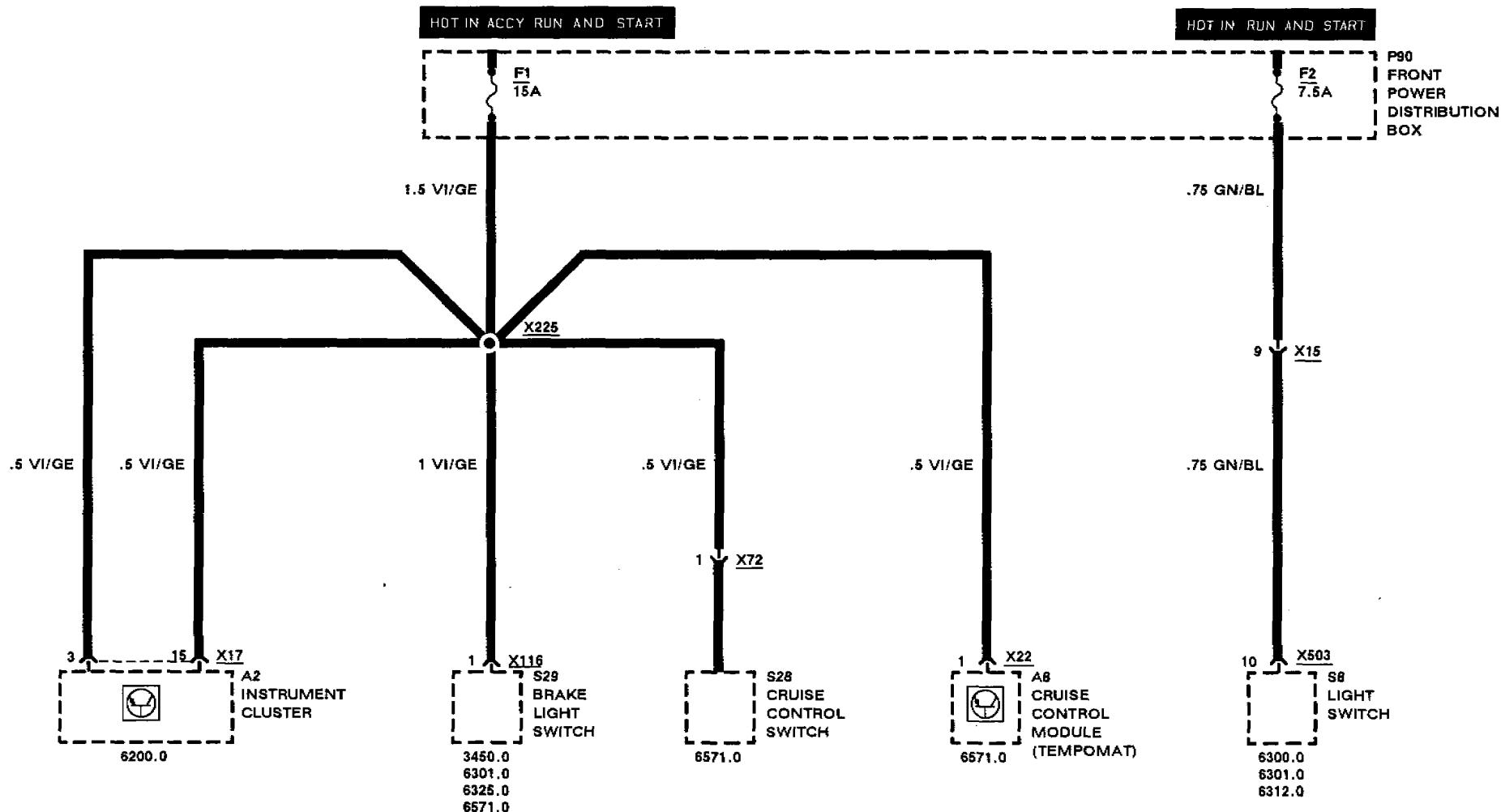
### AUXILIARY RELAY BOX



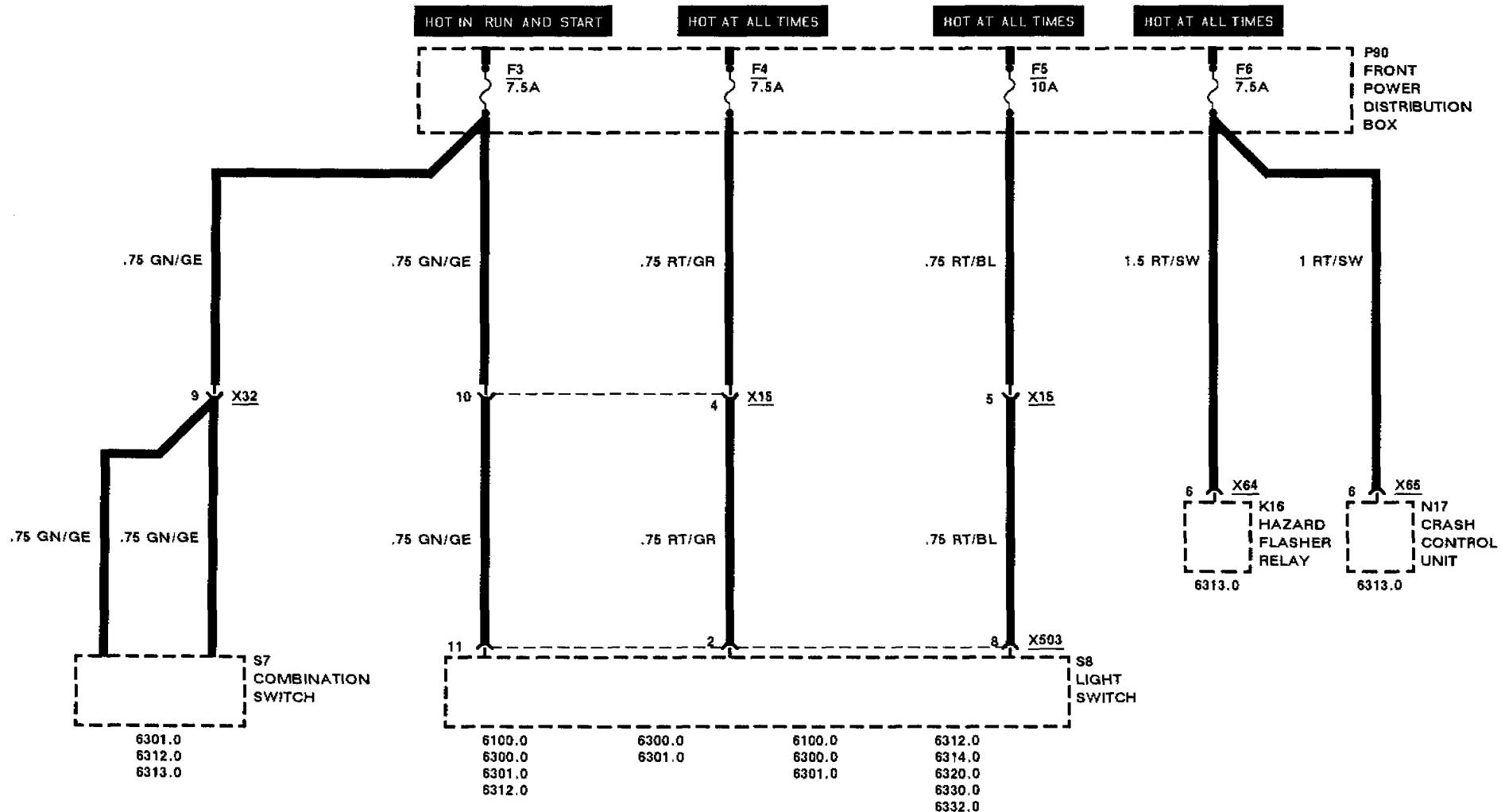


## FUSE DETAILS

### FUSES 1 AND 2



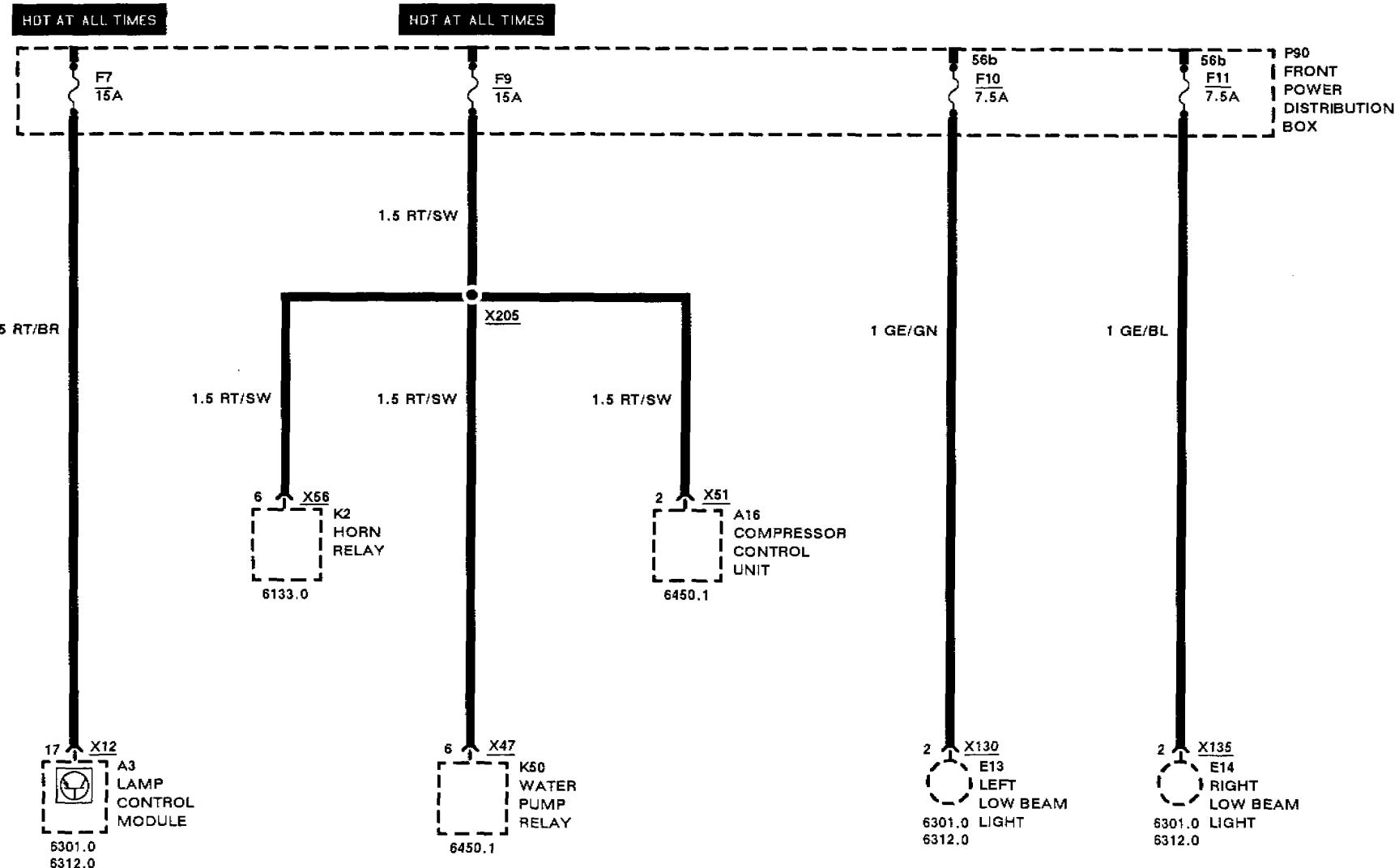
**BMW**  
**5** **FUSE DETAILS**  
FUSES 3, 4, 5 & 6





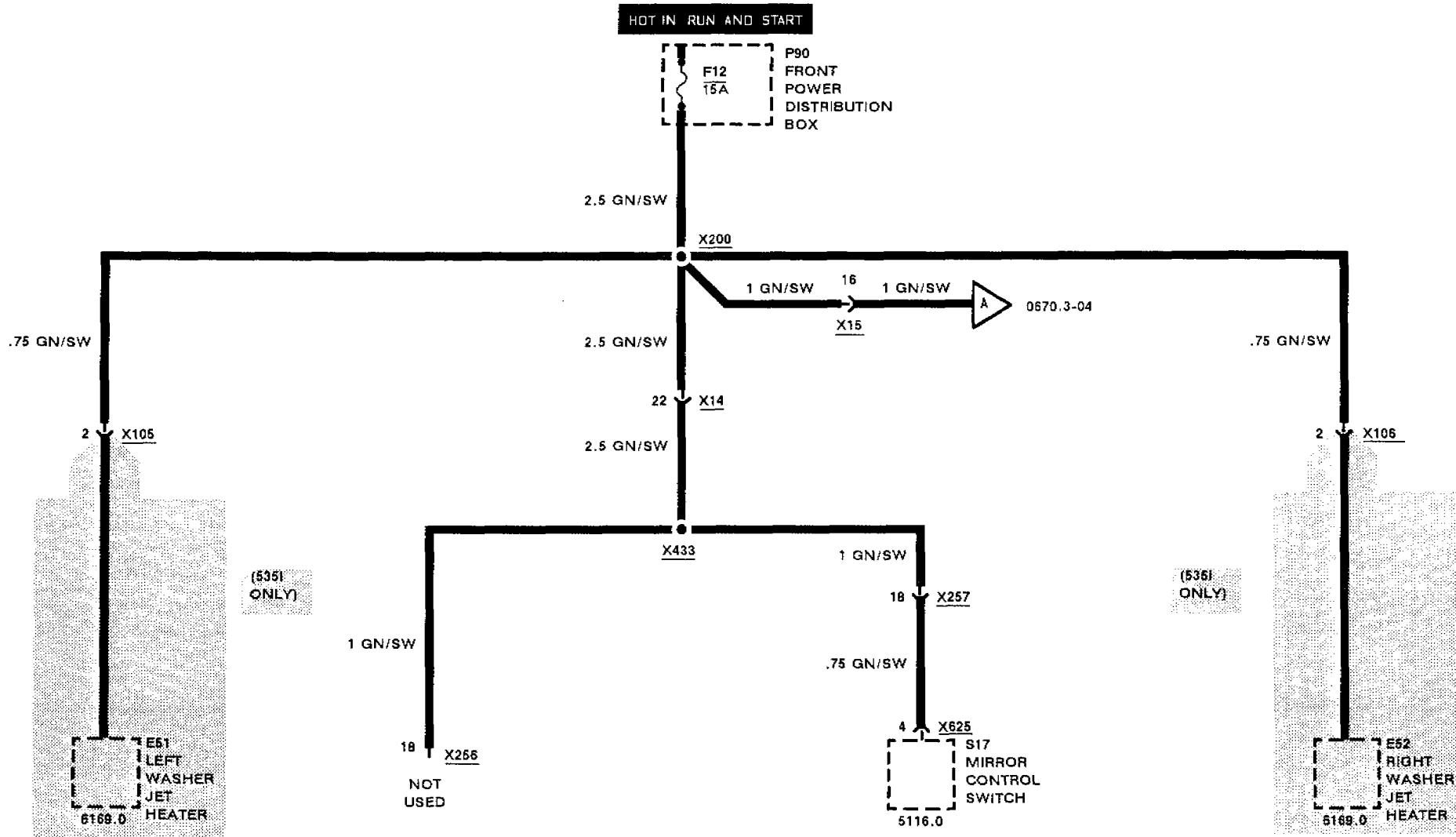
## FUSE DETAILS

FUSES 7, 9, 10 AND 11



**BMW** **FUSE DETAILS**  
**5** **FUSE 12**

2/89



0670.3-03

1989



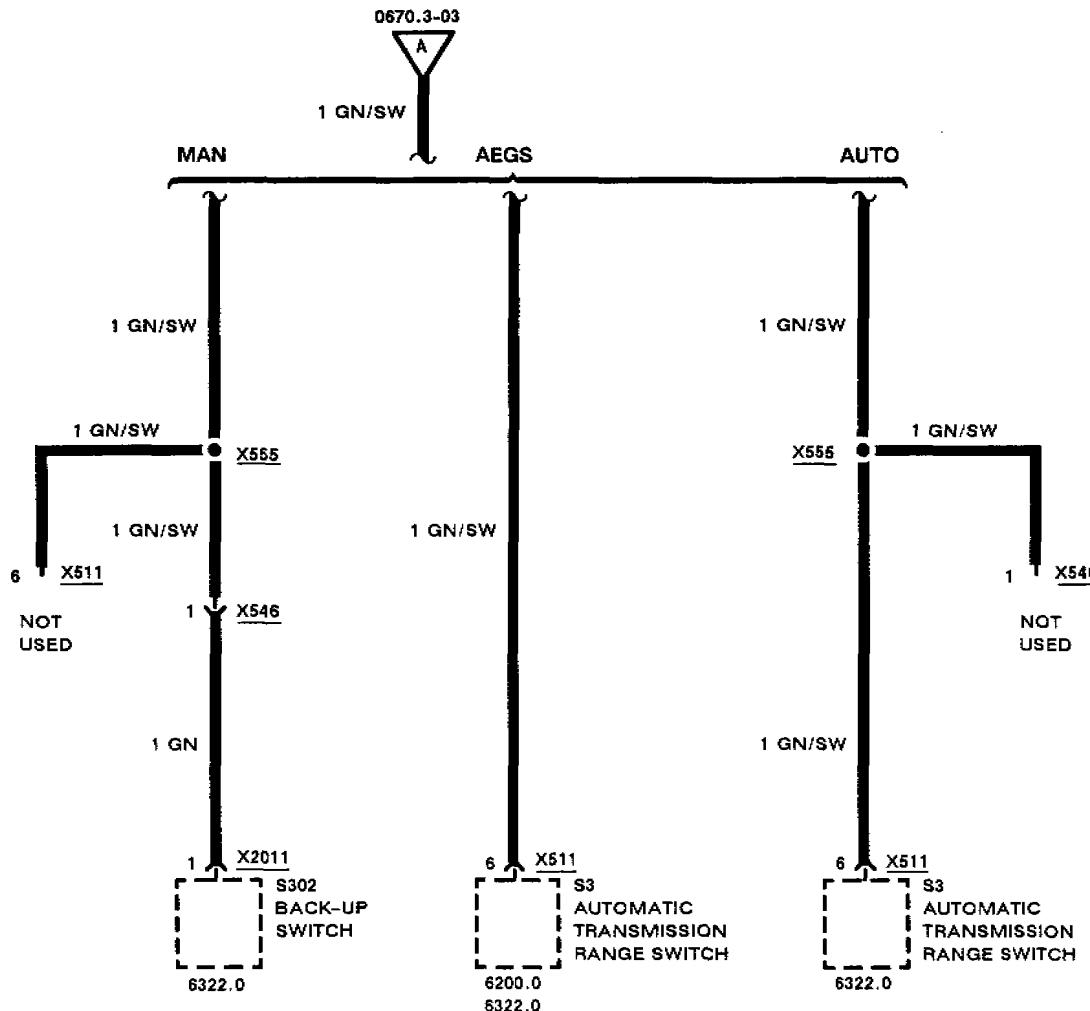
## FUSE DETAILS

### FUSE 12

2/89

0670.3-04

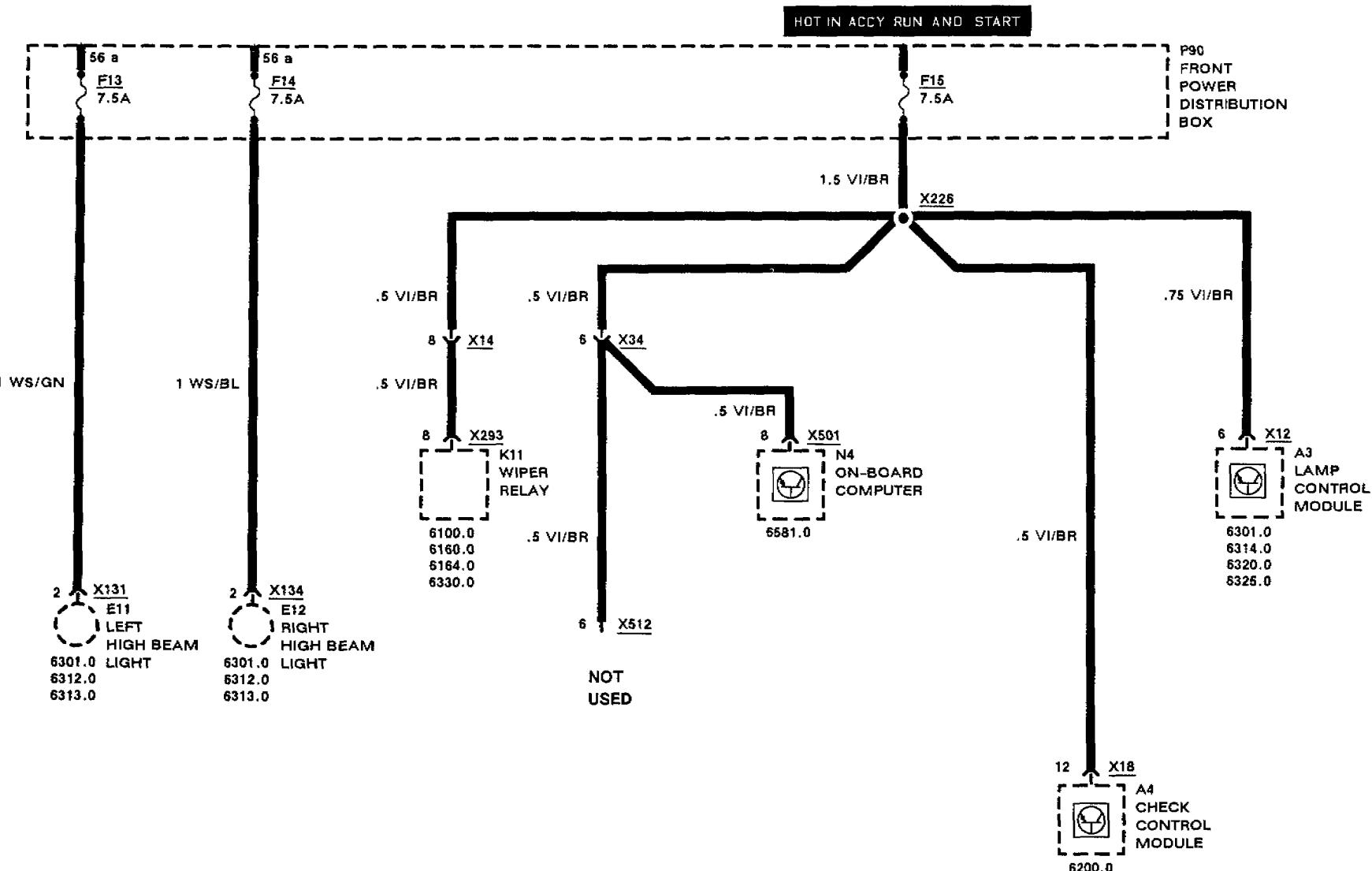
1989





## FUSE DETAILS

### FUSES 13,14 AND 15

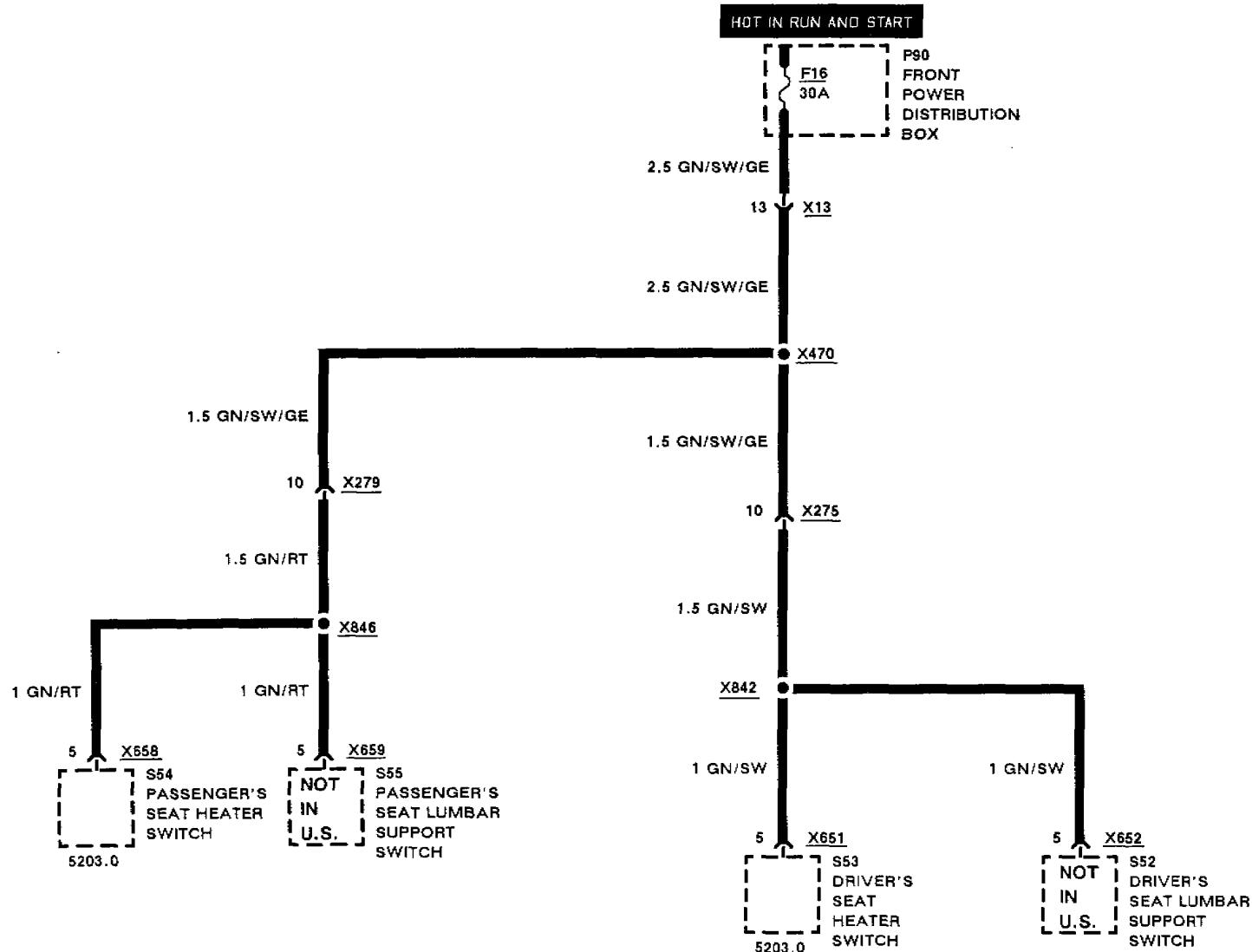




## FUSE DETAILS

### FUSE 16

2/89



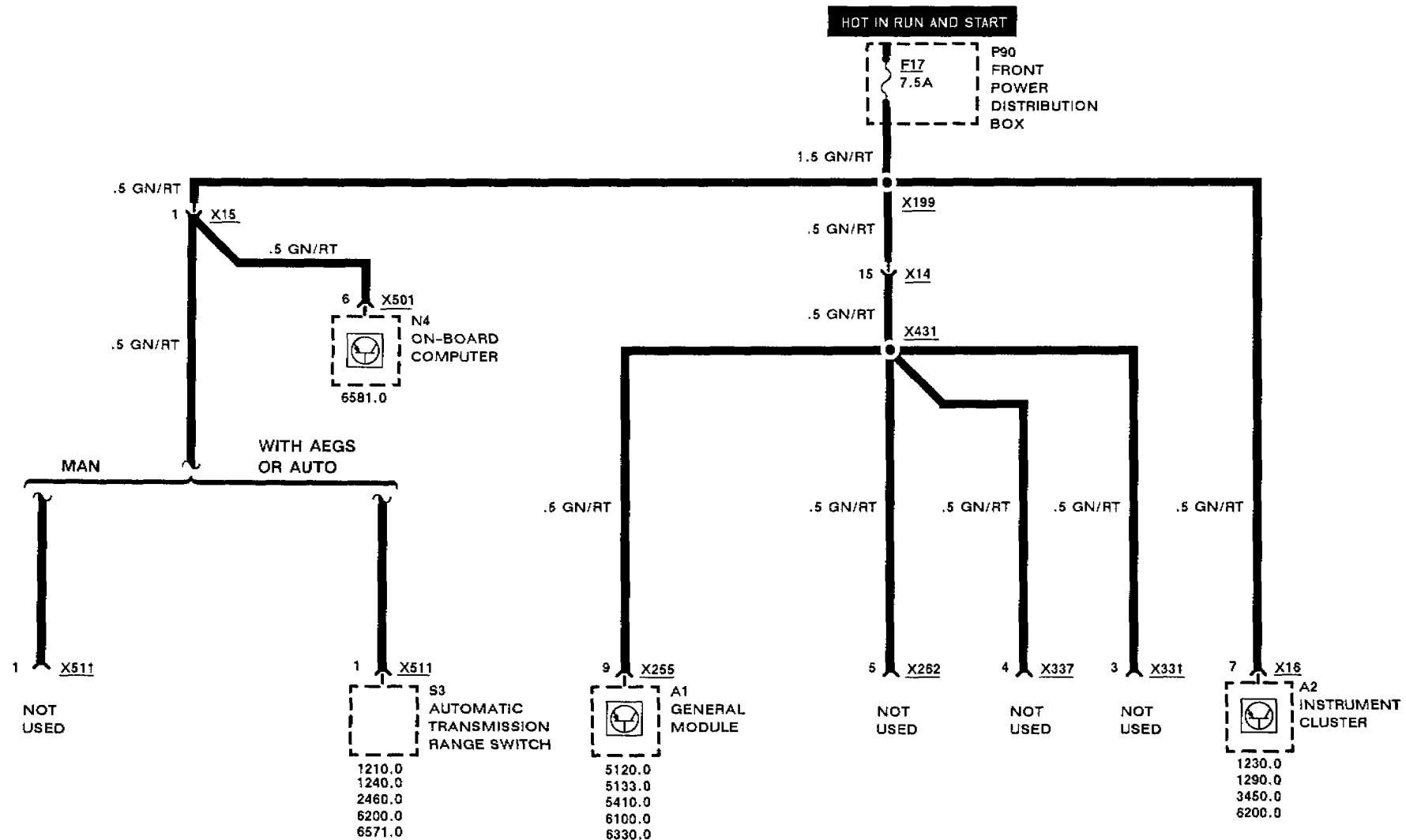
0670.3-06

1989



## FUSE DETAILS

FUSE 17

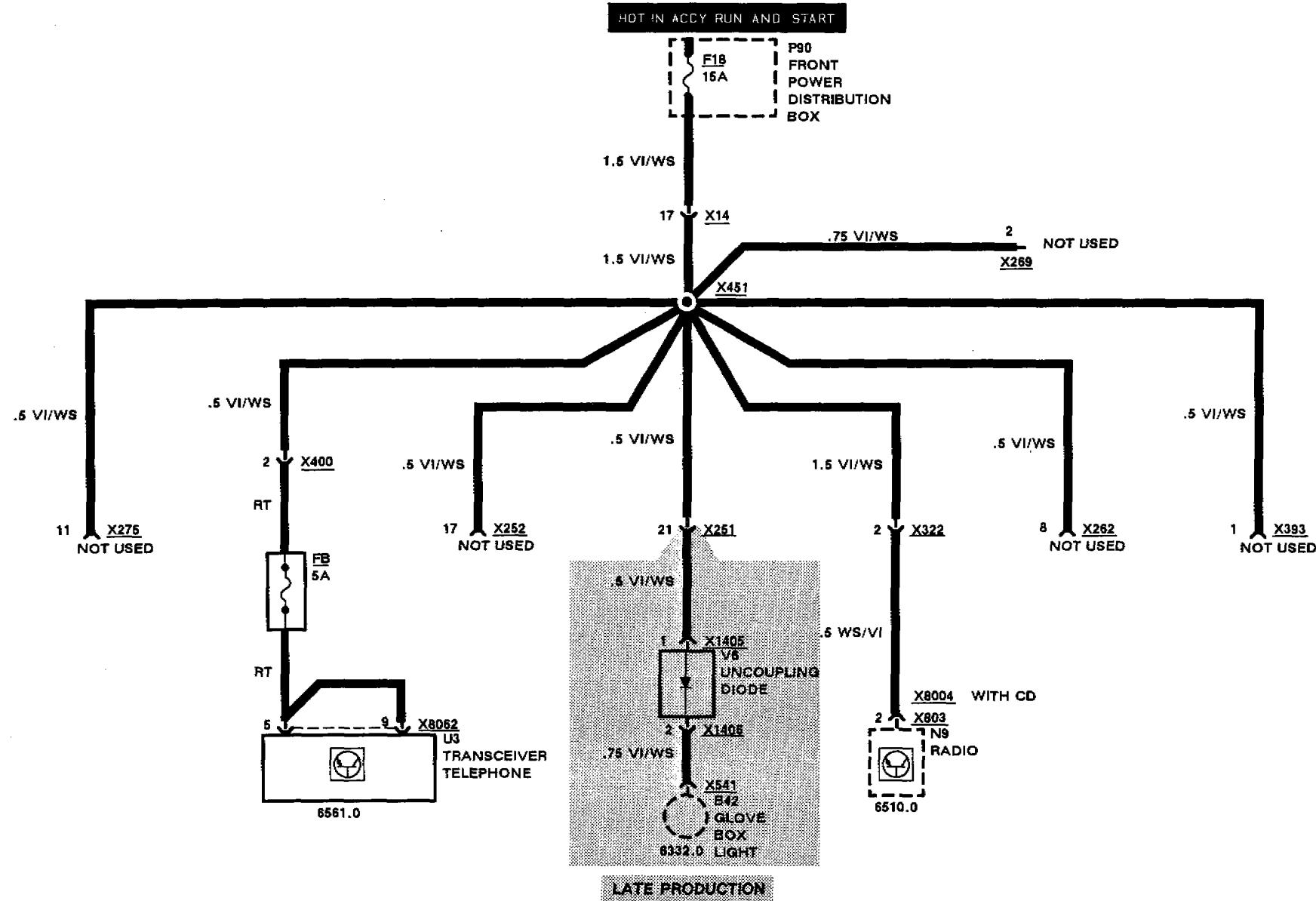




## **FUSE DETAILS**

FUSE 18

68/2

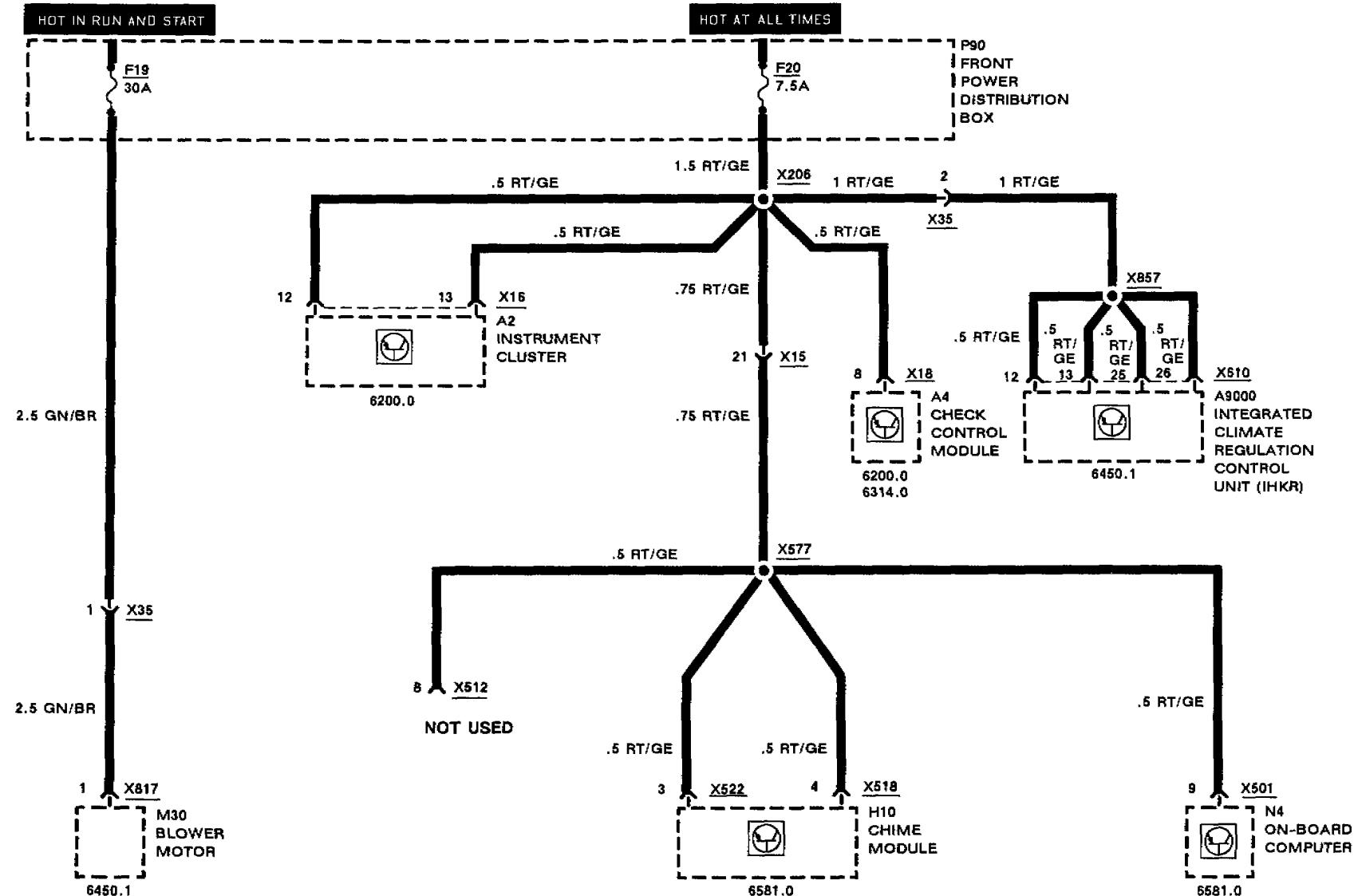


6861



**BMW**  
**5** **FUSE DETAILS**

## **FUSES 19 AND 20**





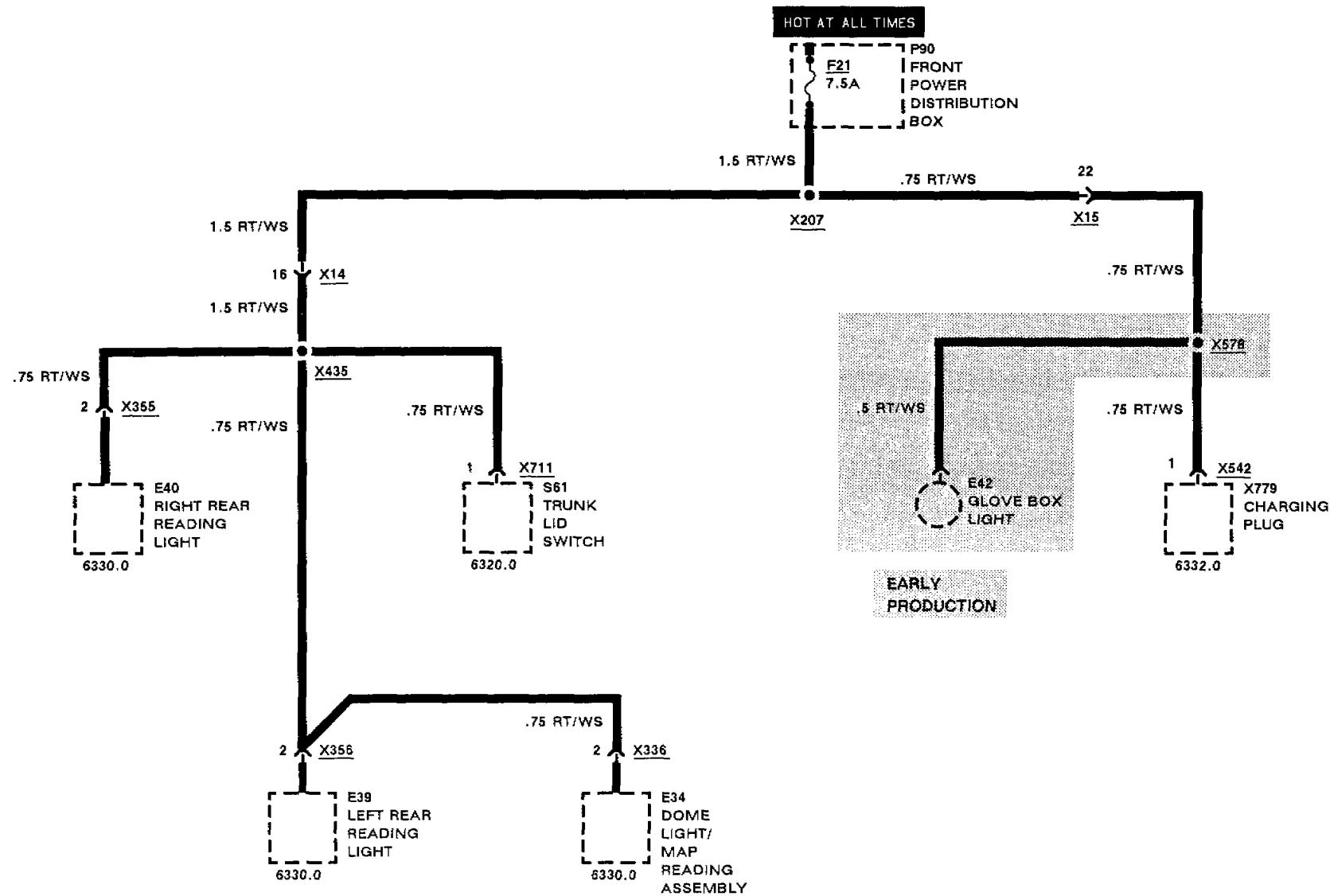
## FUSE DETAILS

### FUSE 21

2/89

0670.3-10

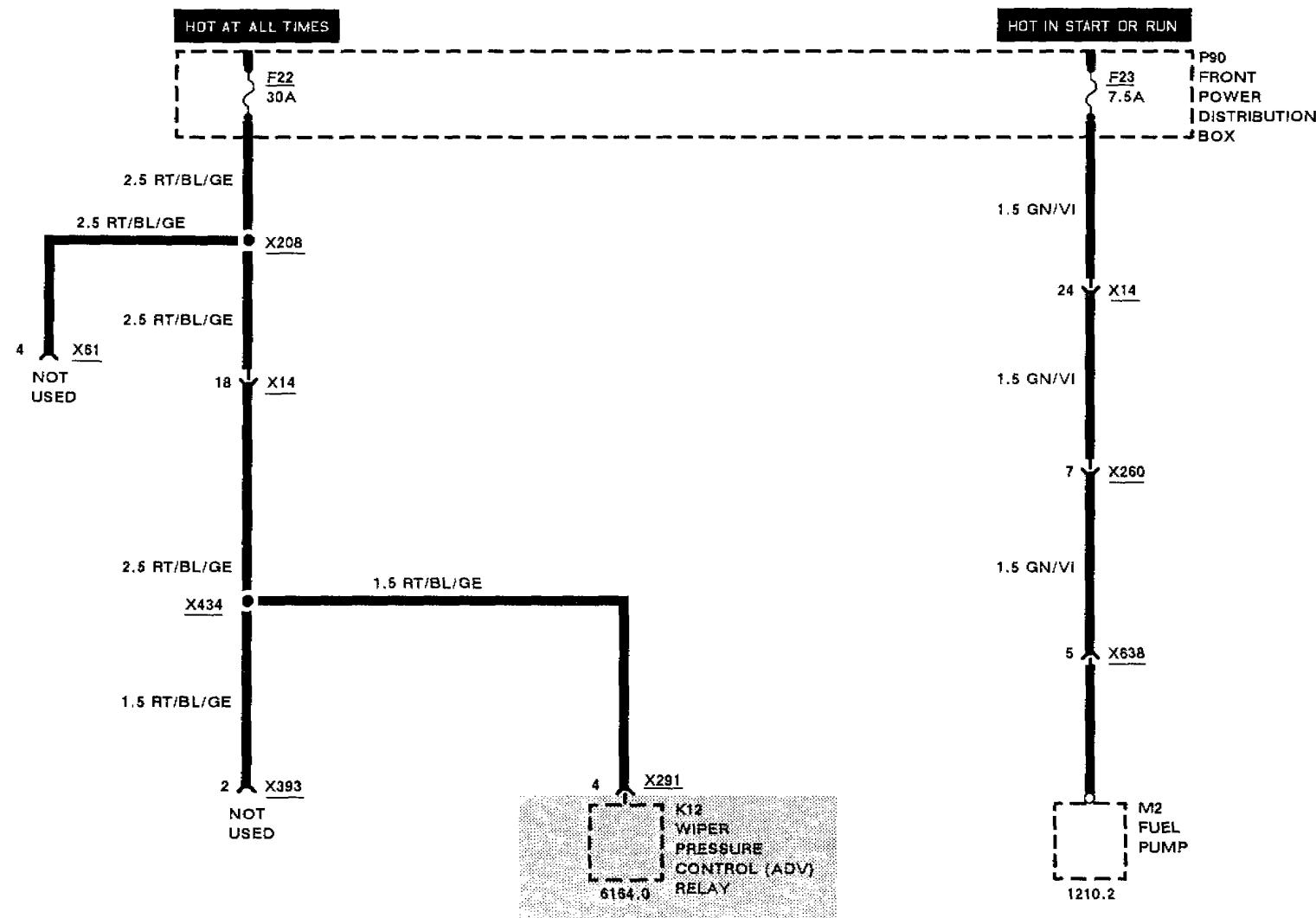
1989





## FUSE DETAILS

### FUSES 22 AND 23



(538)  
ONLY

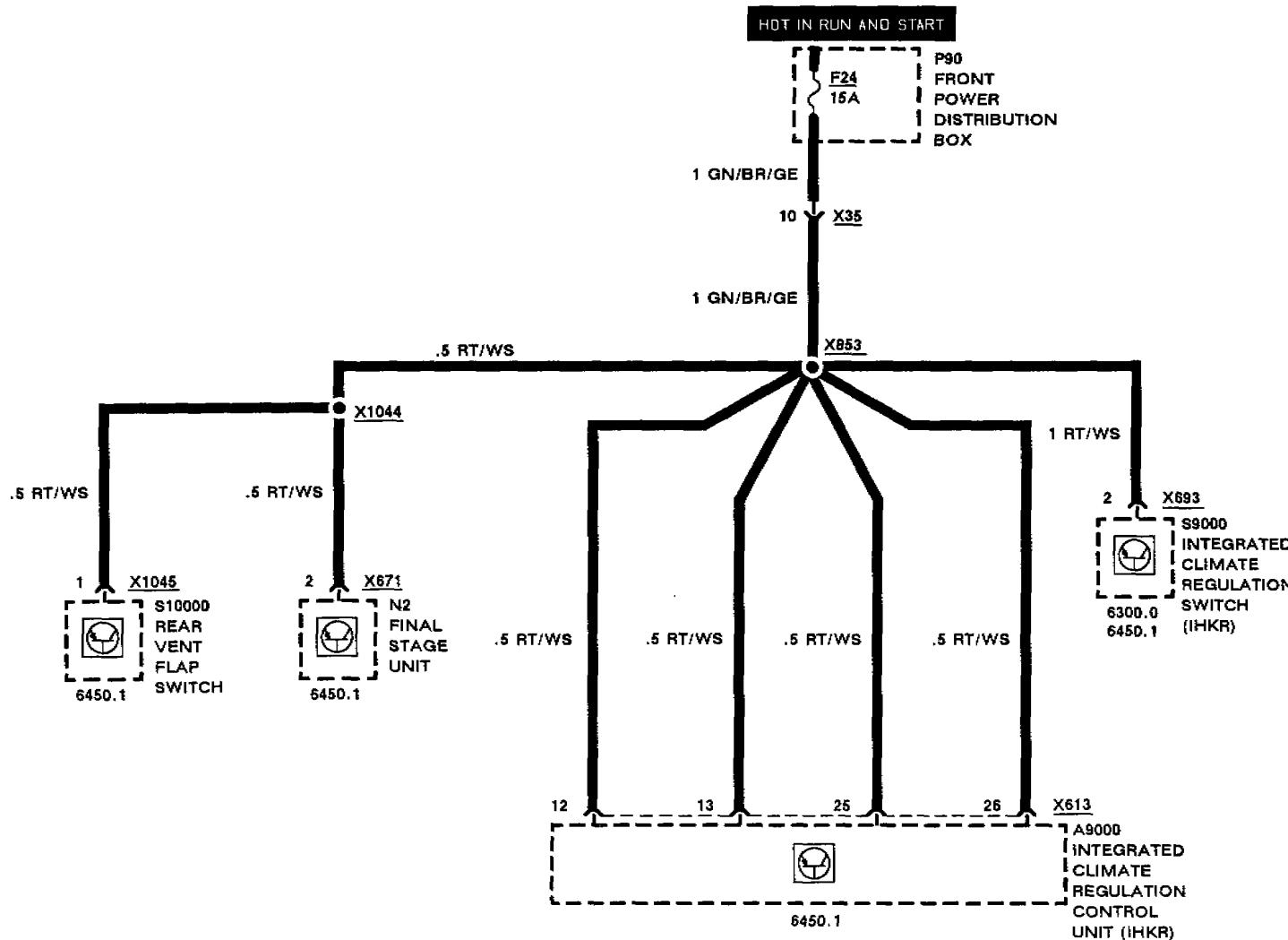


## FUSE DETAILS

### FUSE 24

2/89

0670.3-12

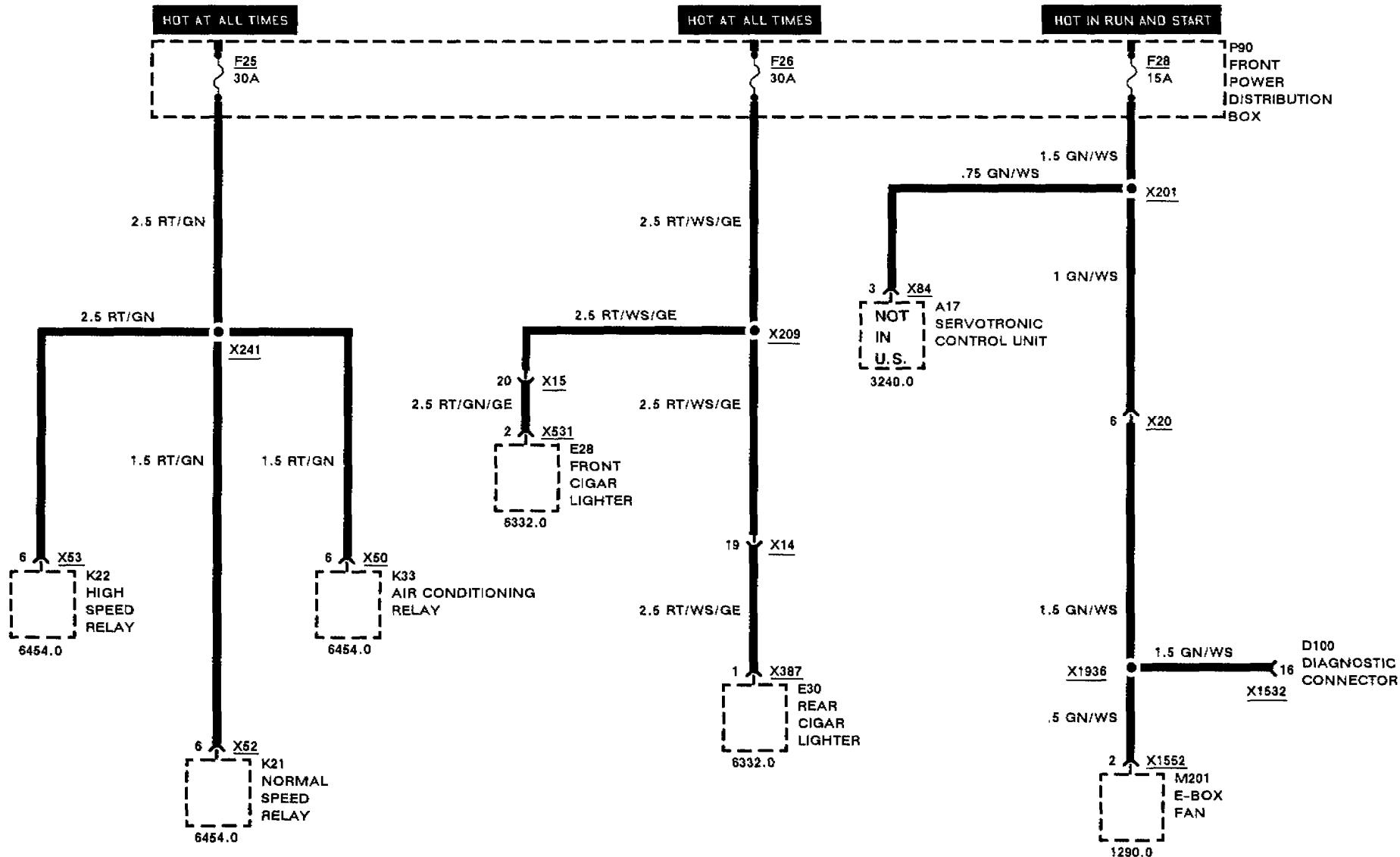


1989



## FUSE DETAILS

### FUSES 25,26 AND 28



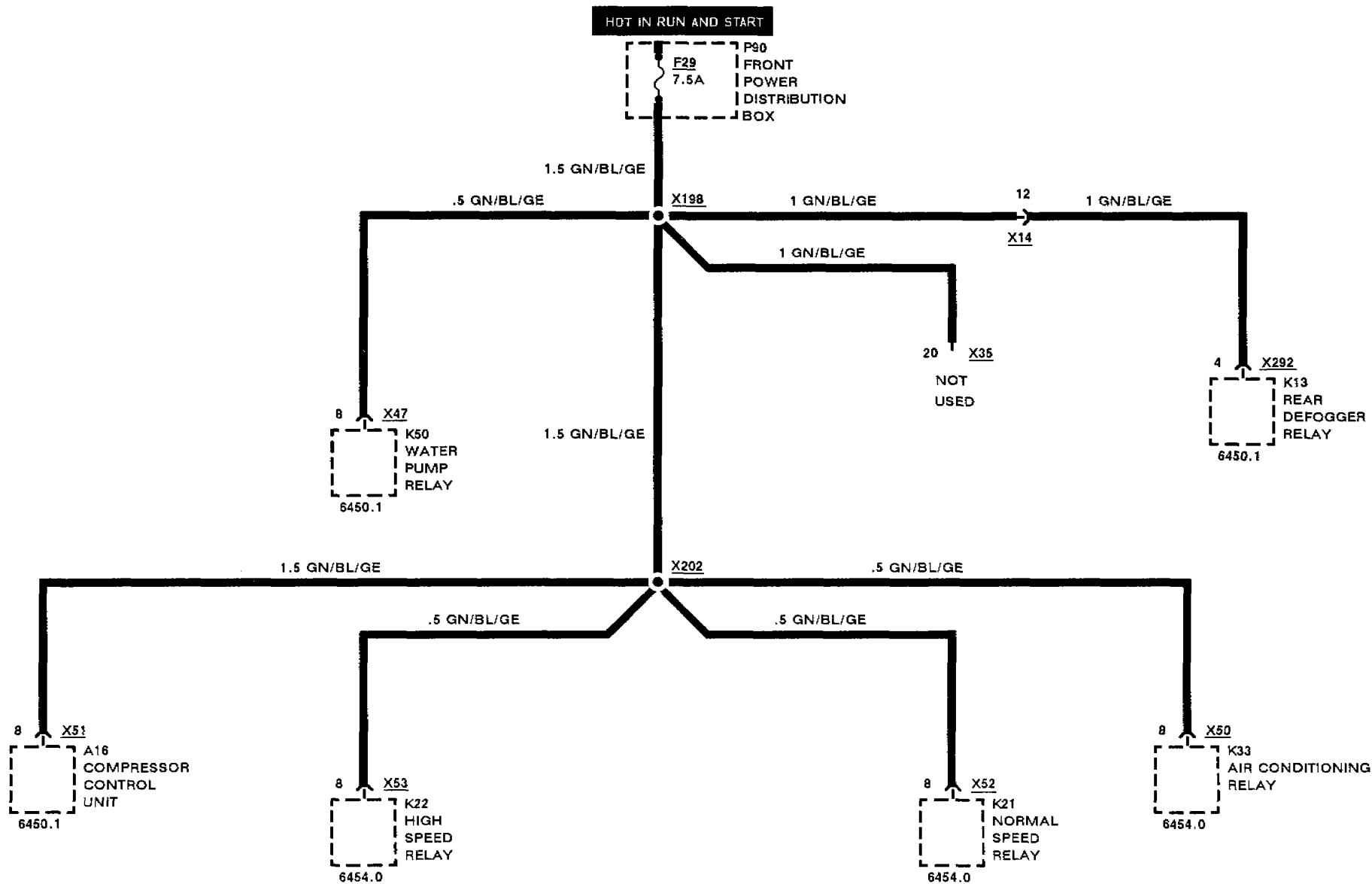


## FUSE DETAILS

### FUSE 29

2/89

0670.3-14

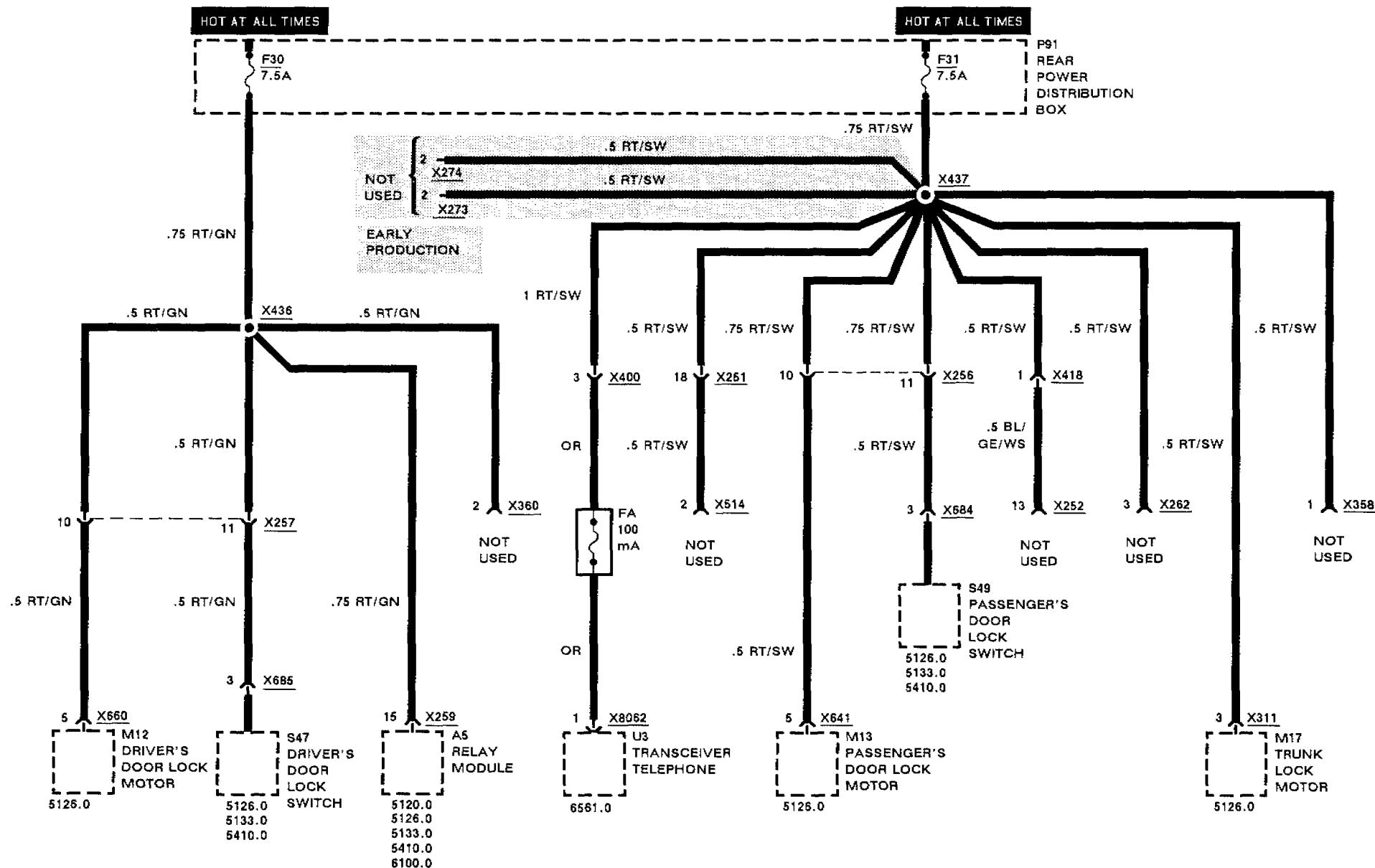


1989



## FUSE DETAILS

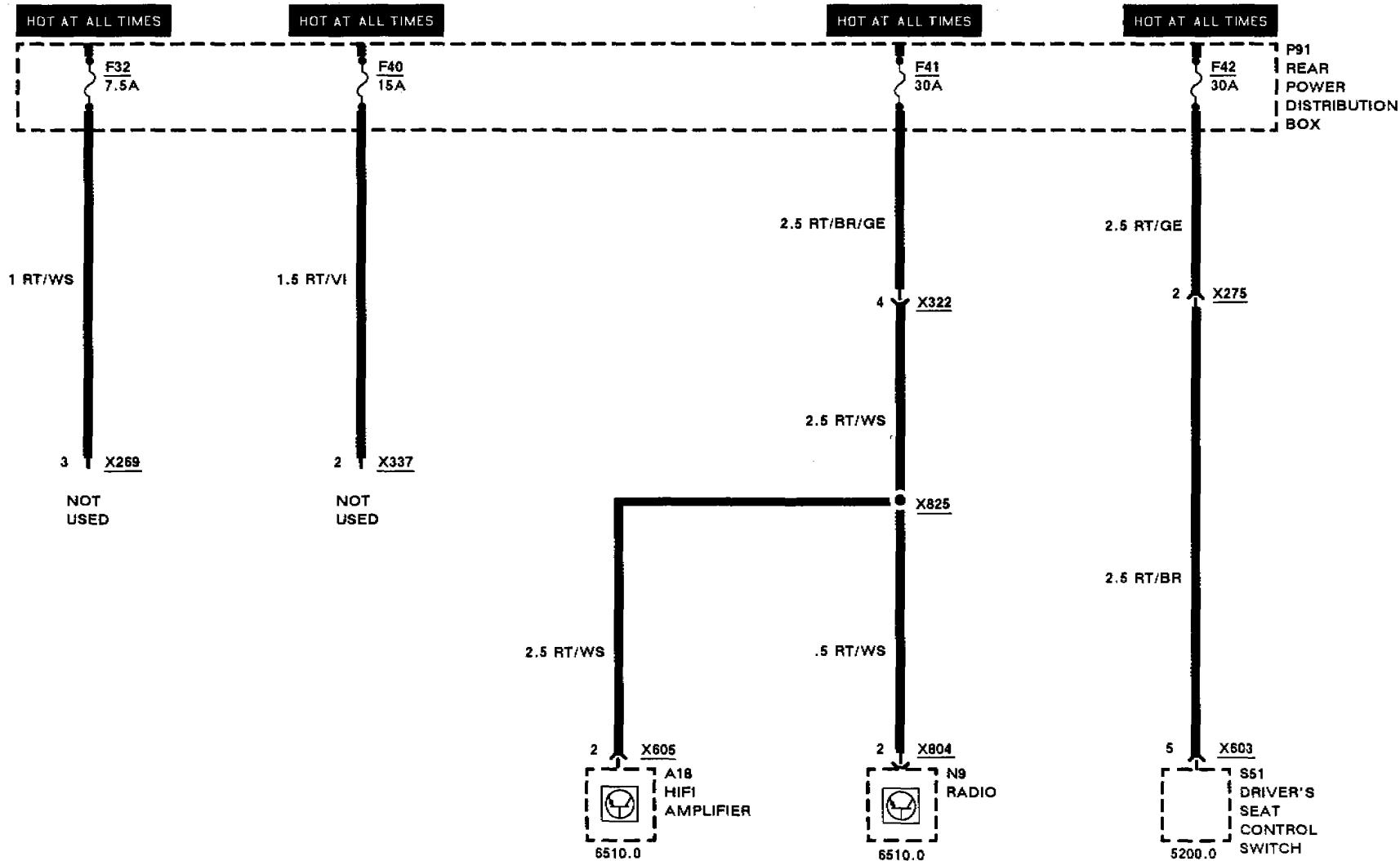
### FUSES 30 AND 31





## FUSE DETAILS

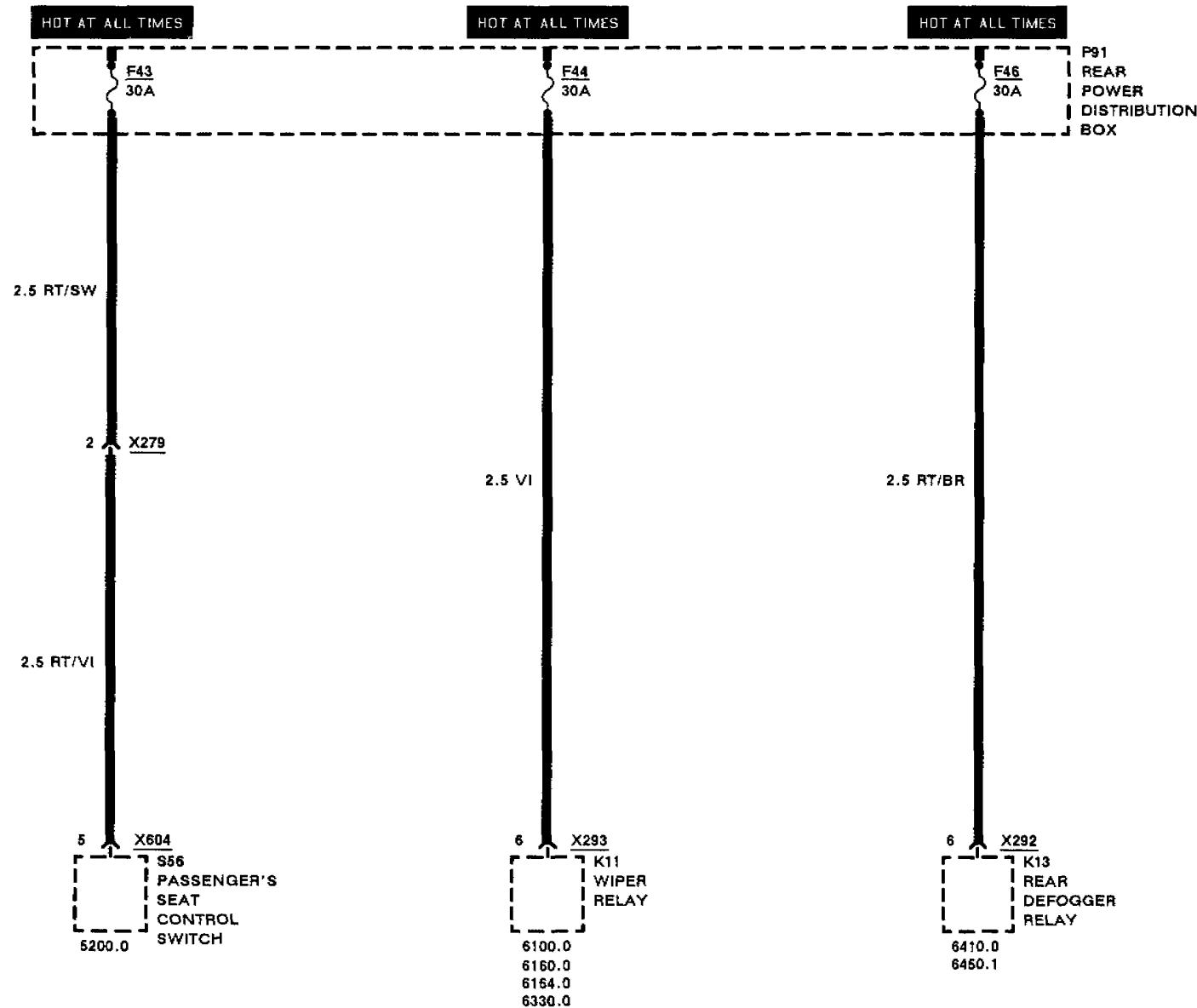
### FUSES 32, 40, 41 AND 42





## FUSE DETAILS

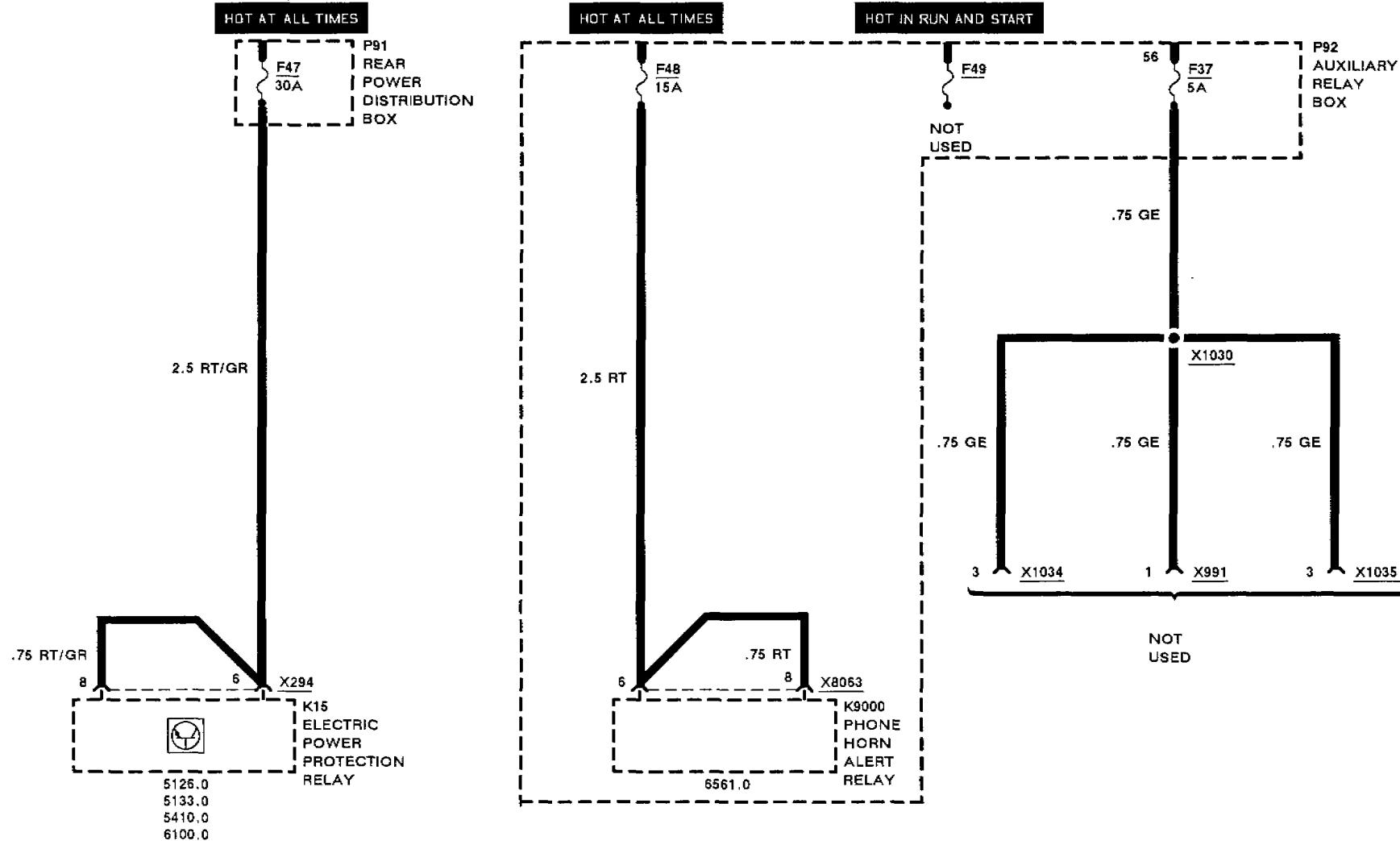
### FUSES 43,44 AND 46





## FUSE DETAILS

### FUSES 37, 47, 48 AND 49





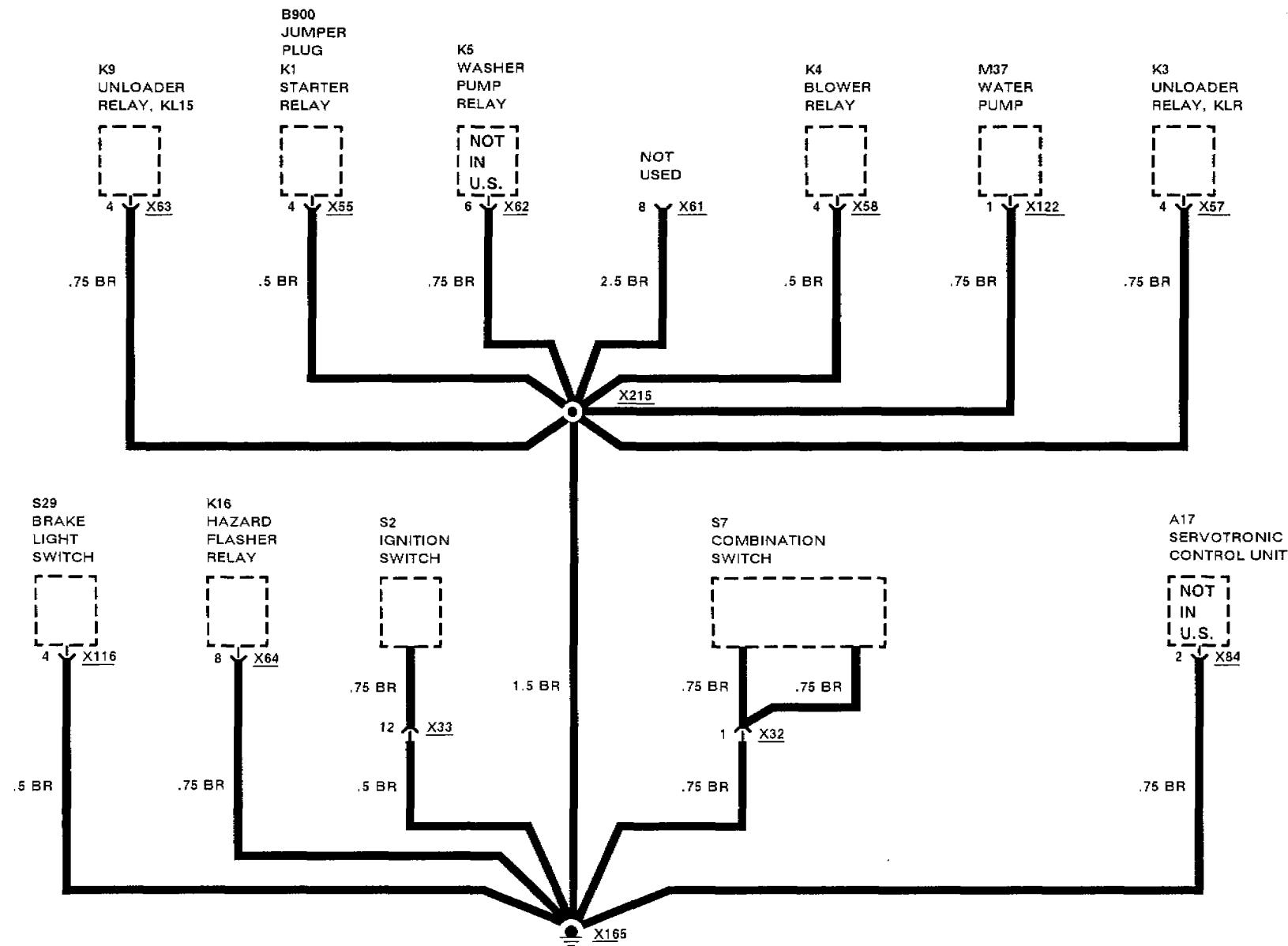
## GROUND DISTRIBUTION

### GROUND X165

2/89

0670.4-00

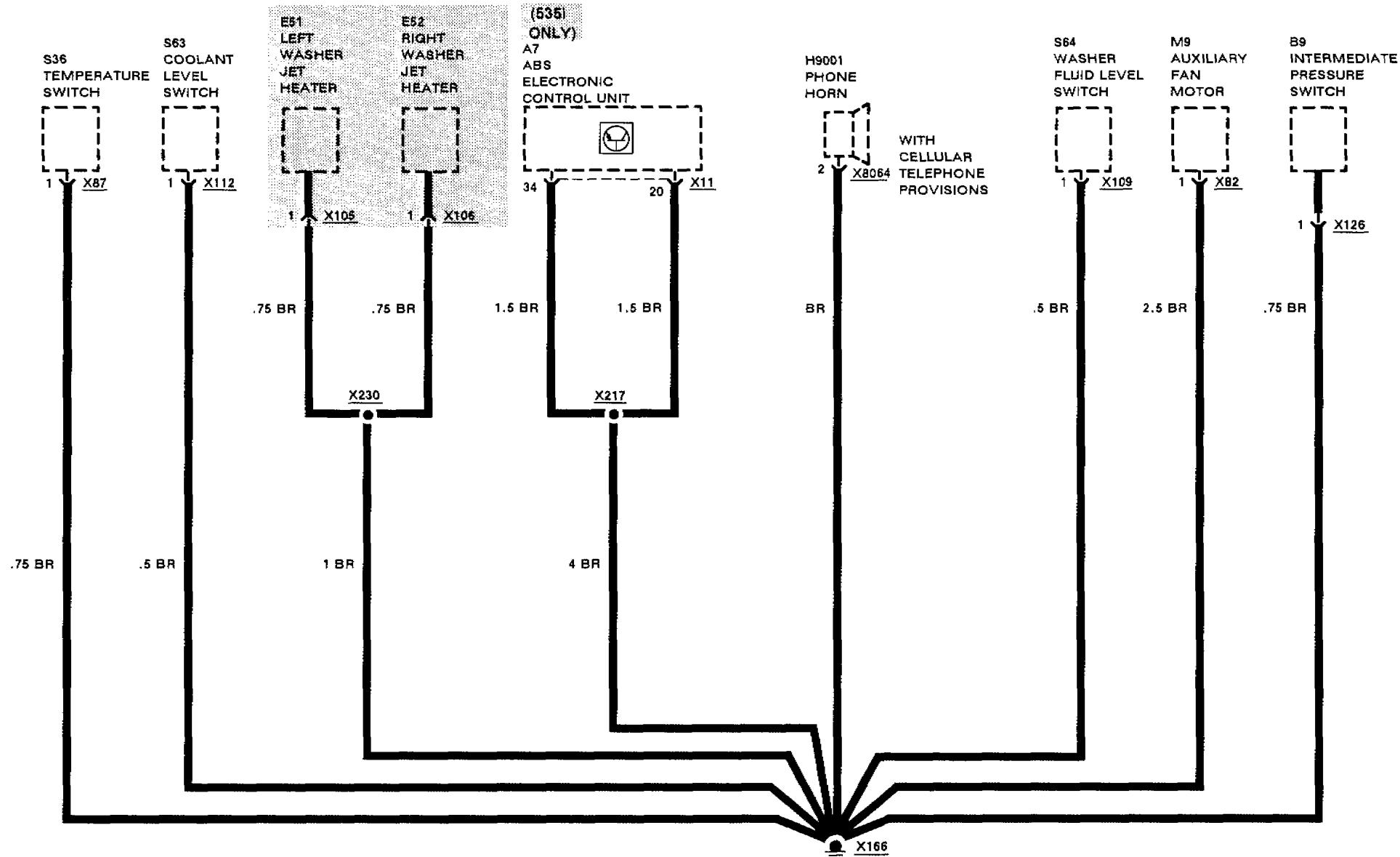
1989





## GROUND DISTRIBUTION

### GROUND X166

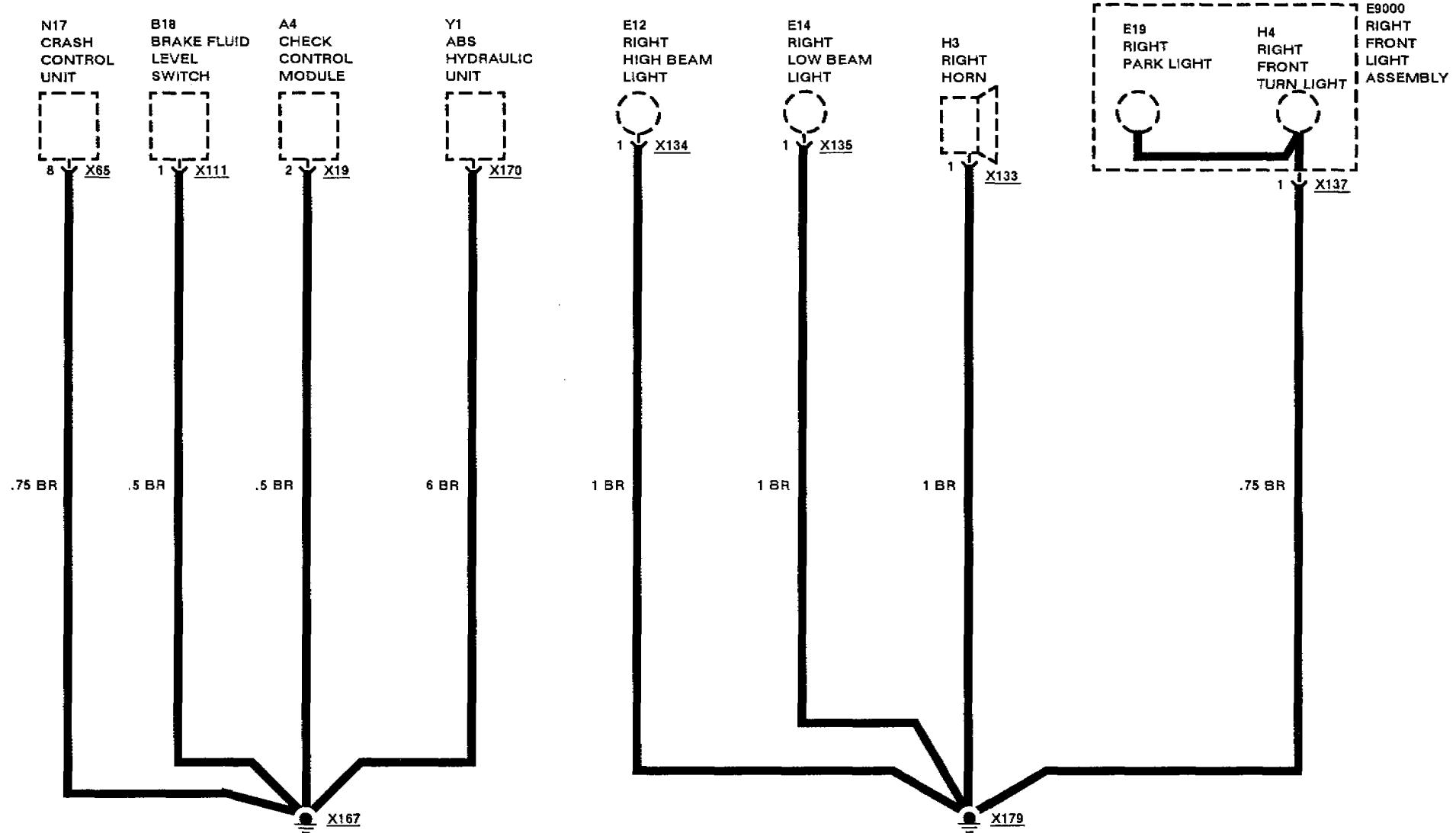




# GROUND DISTRIBUTION

## GROUNDS X167 AND X179

2/89



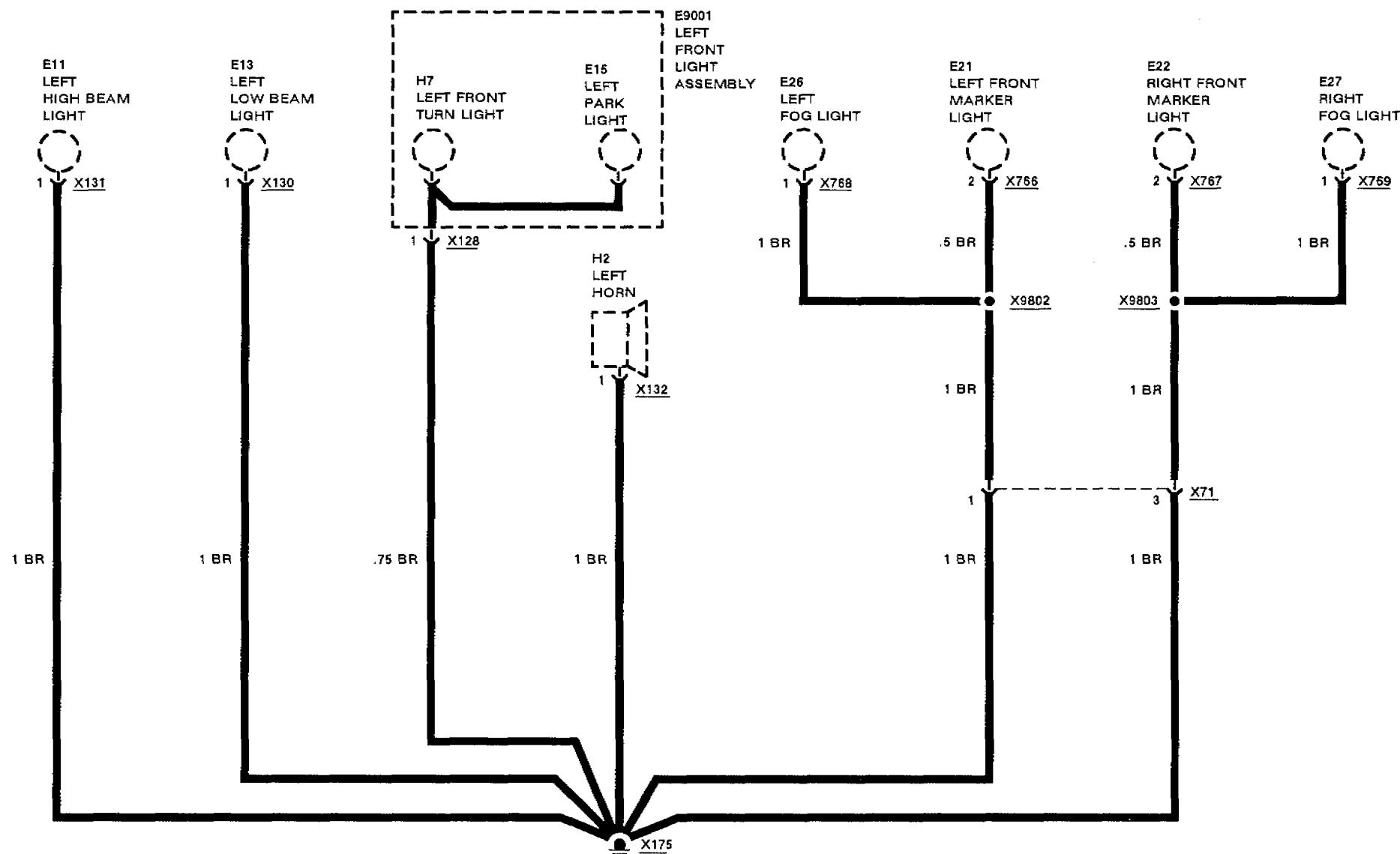
0670.4-02

1989



## GROUND DISTRIBUTION

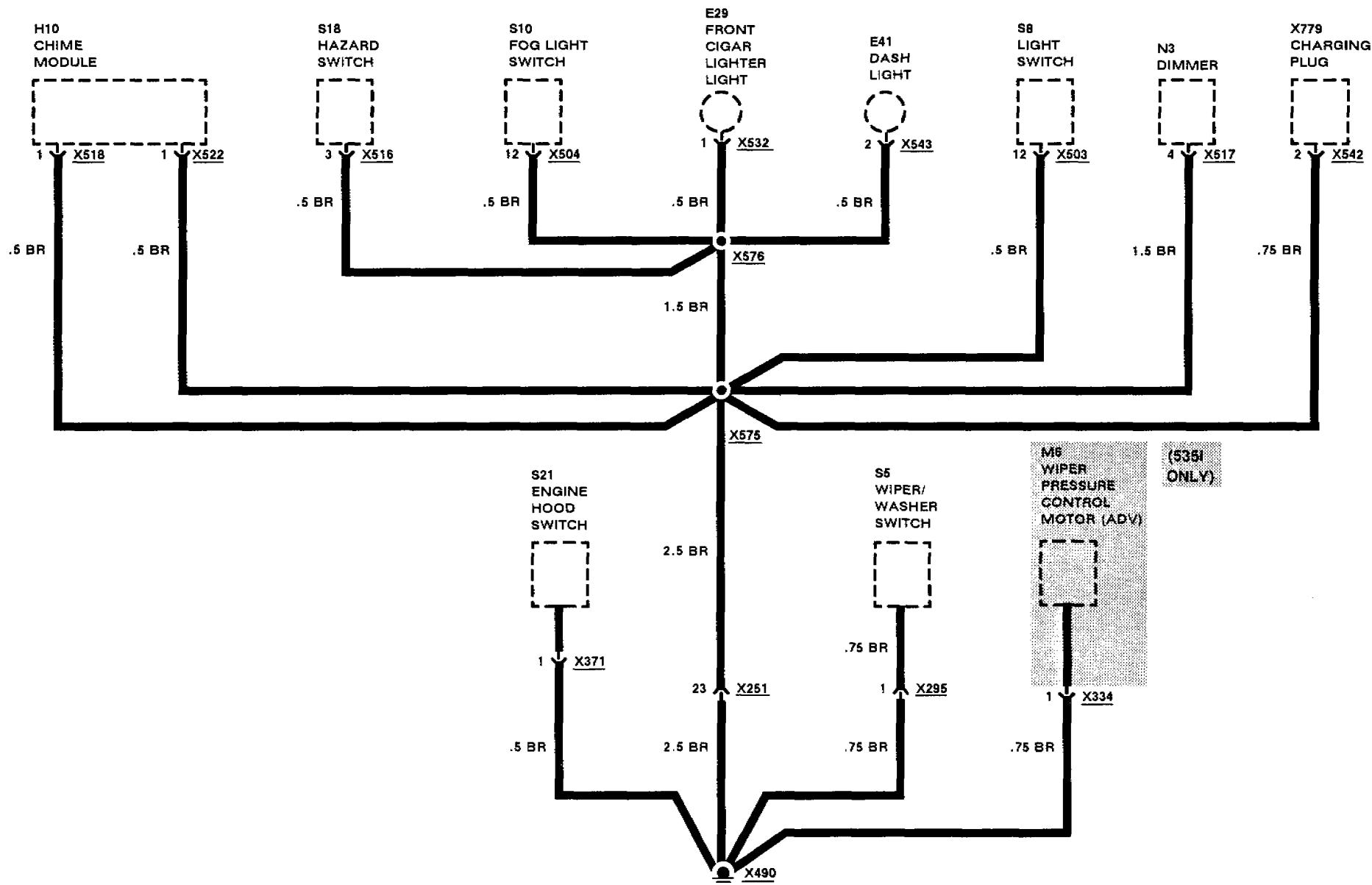
### GROUND X175





## GROUND DISTRIBUTION

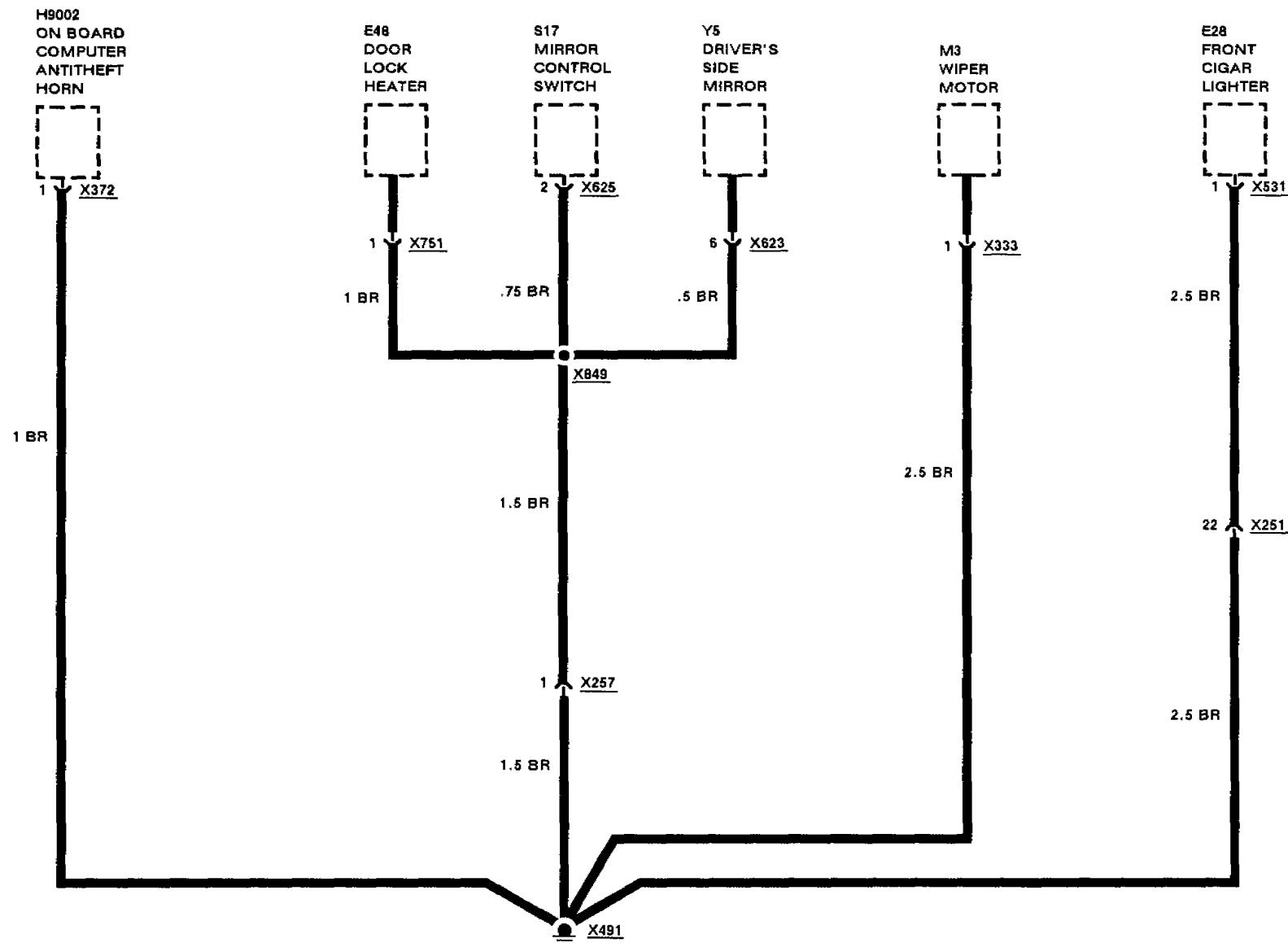
### GROUND X490





## GROUND DISTRIBUTION

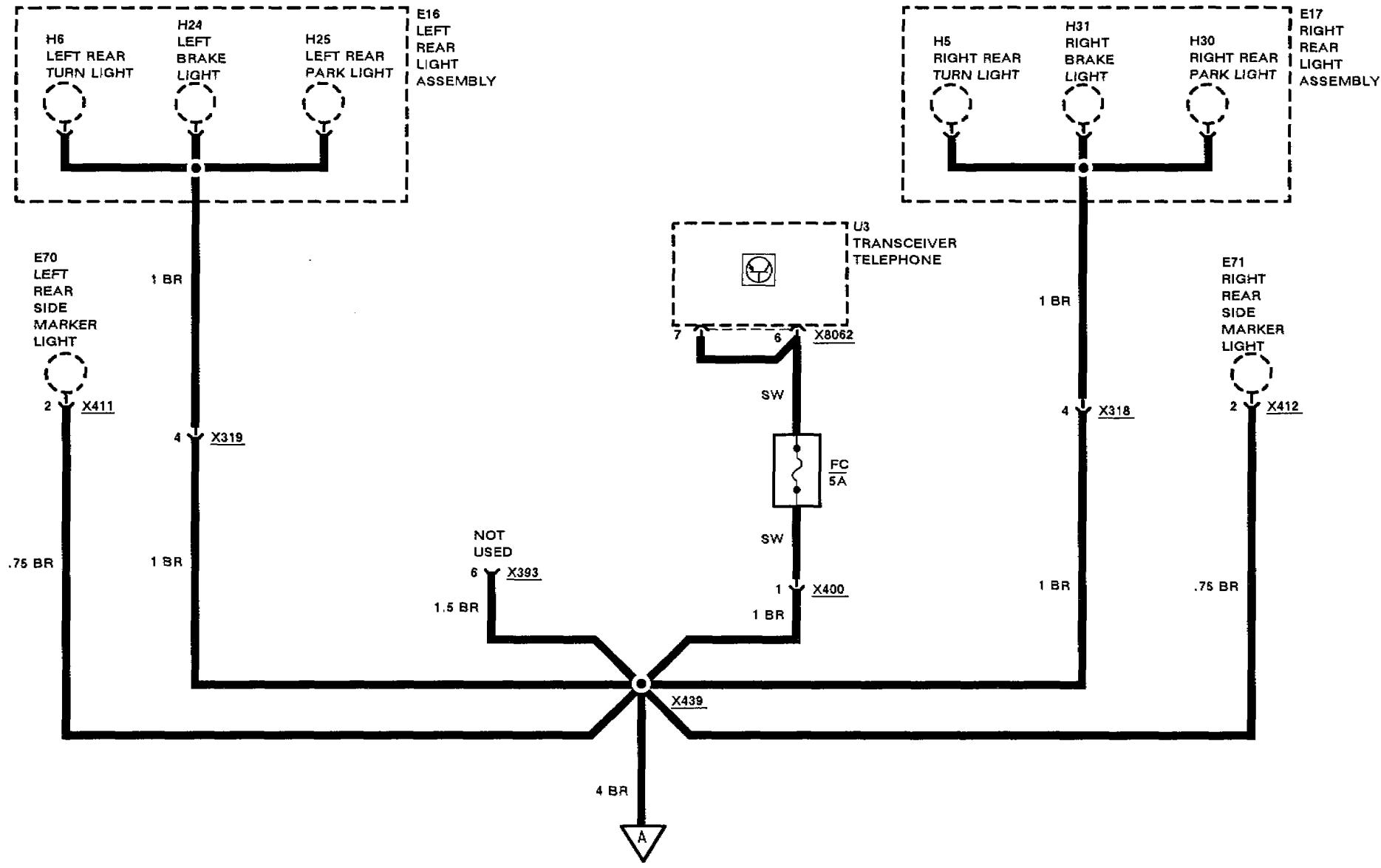
### GROUND X491





## GROUND DISTRIBUTION

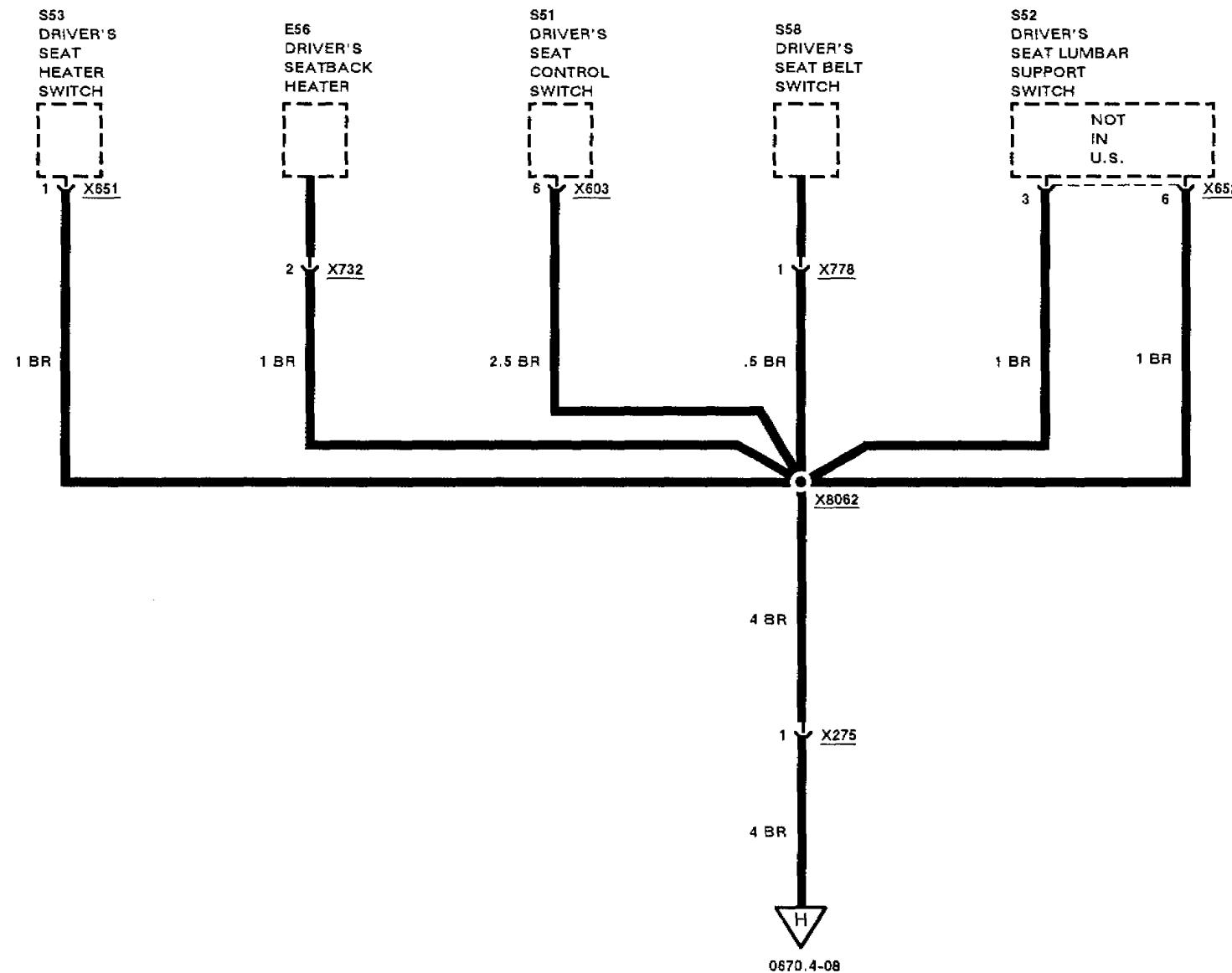
### GROUND X492





## GROUND DISTRIBUTION

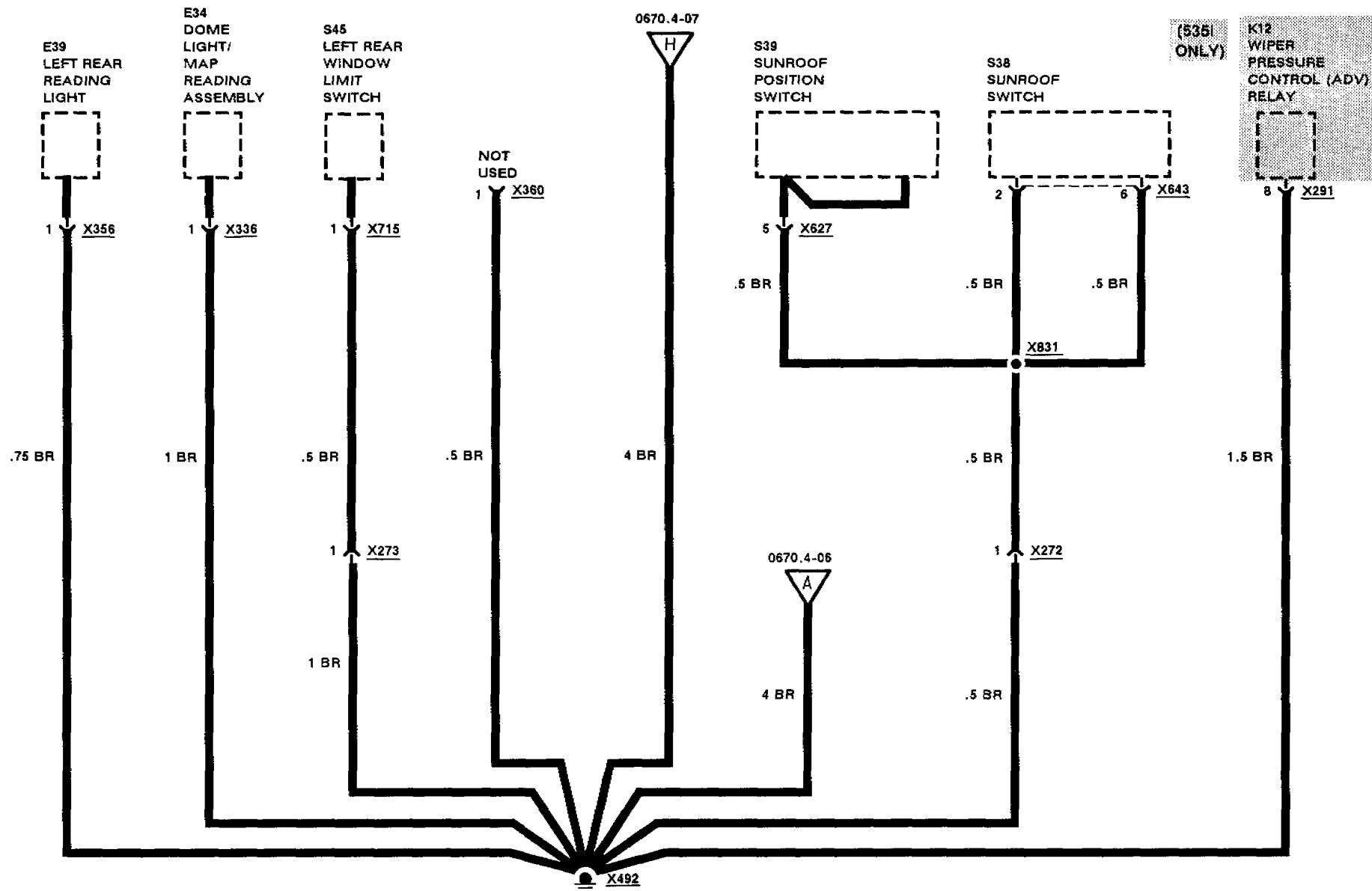
### GROUND X492





# GROUND DISTRIBUTION

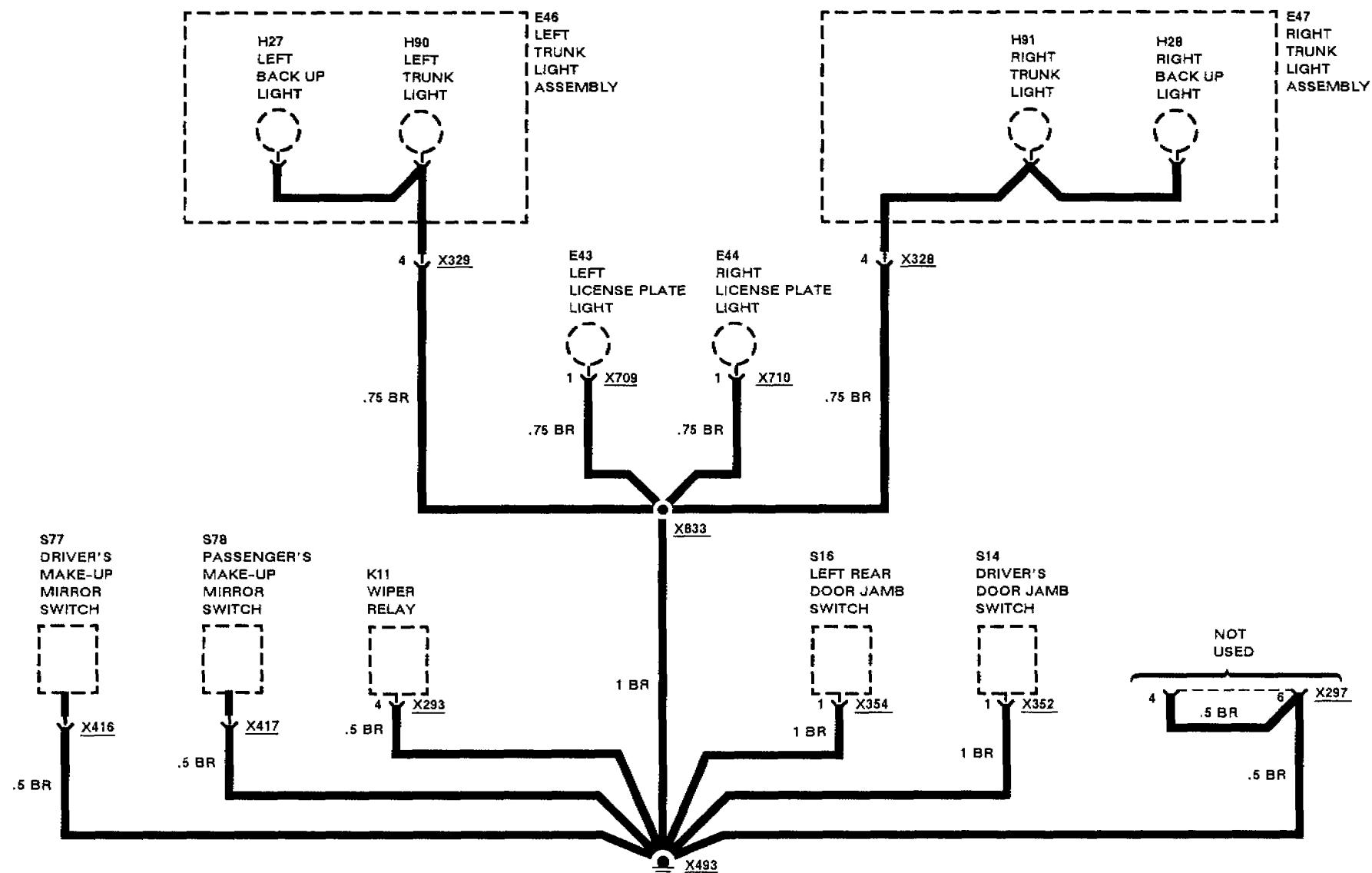
## GROUND X492





## GROUND DISTRIBUTION

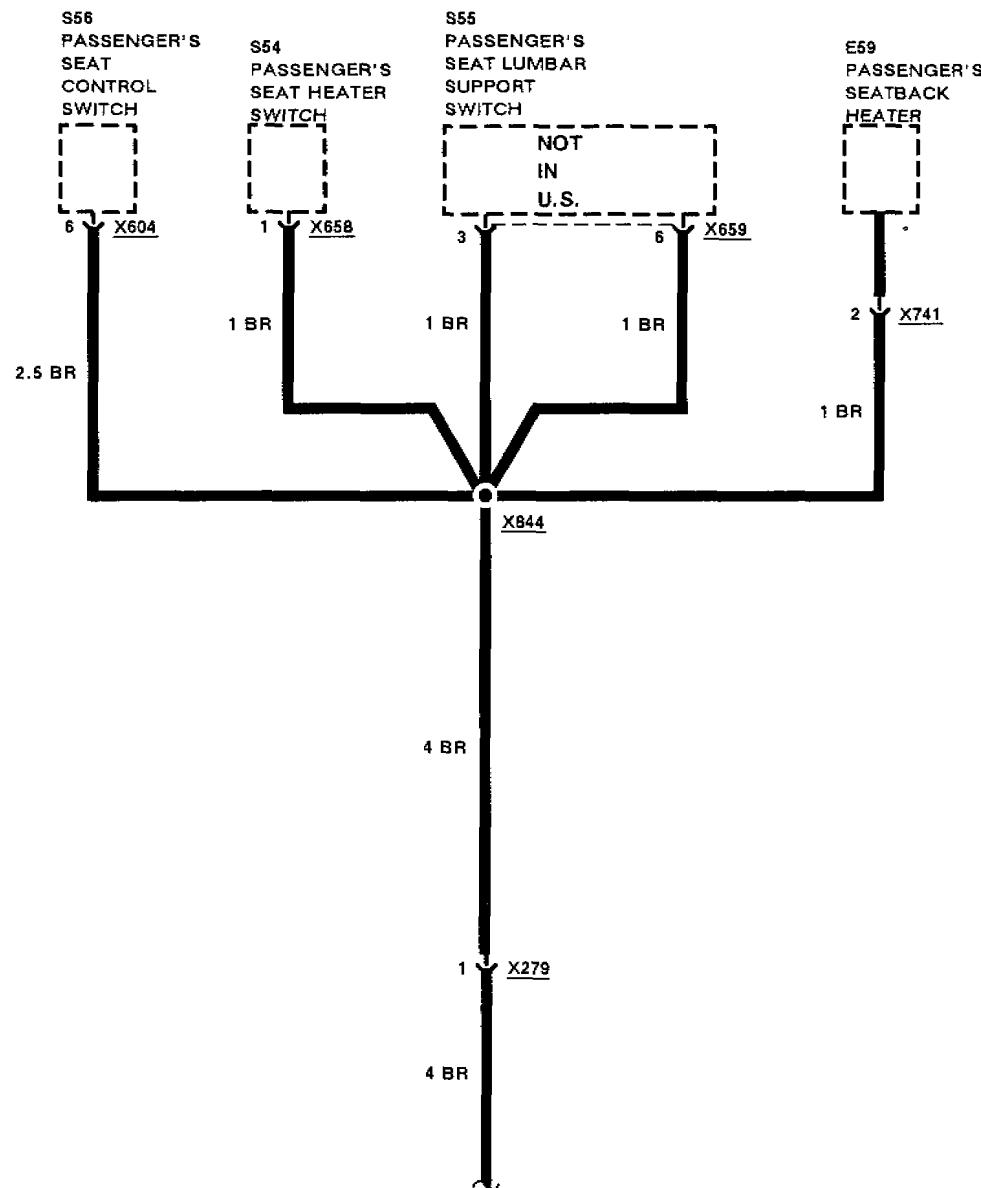
### GROUND X493

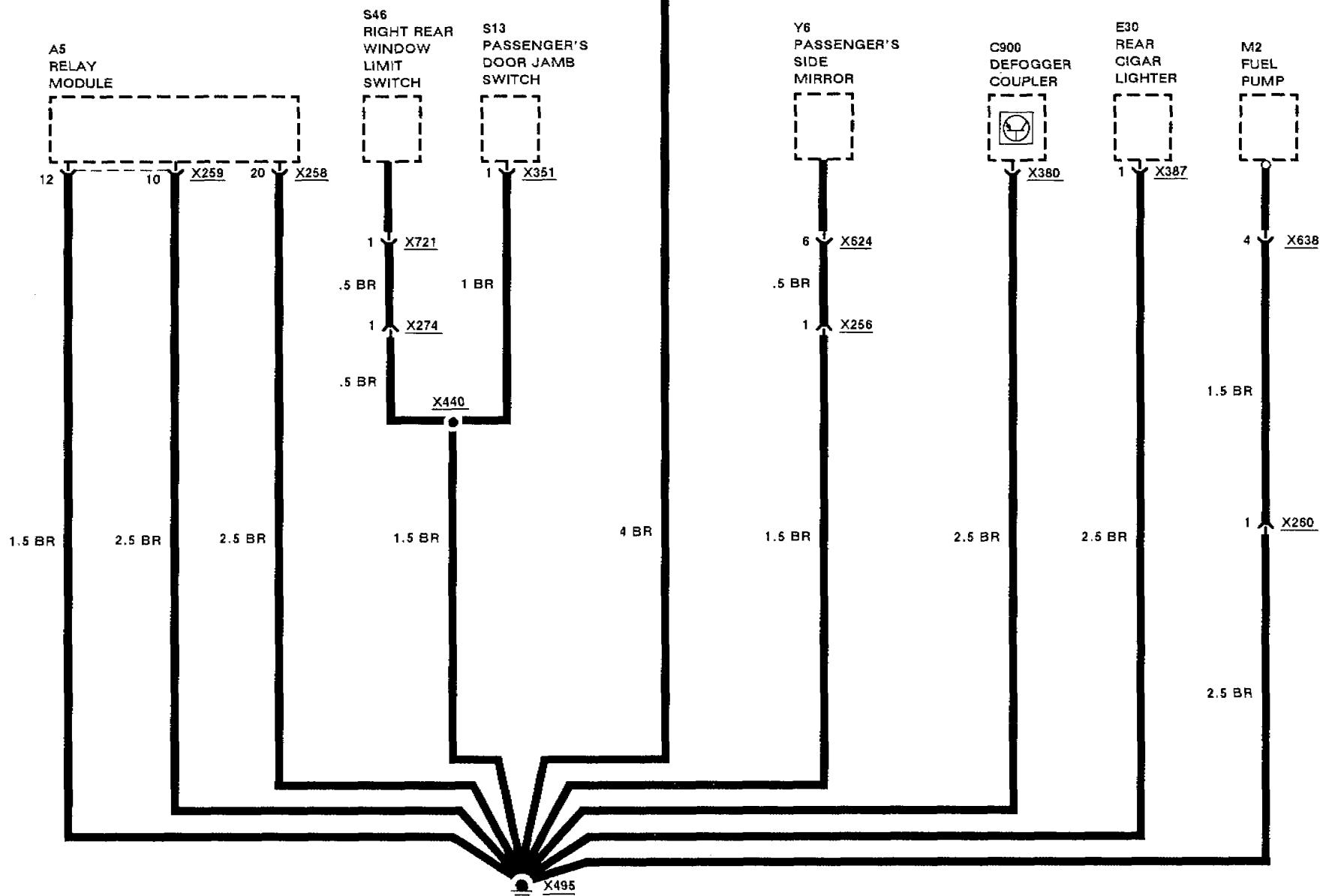




## GROUND DISTRIBUTION

### GROUND X495

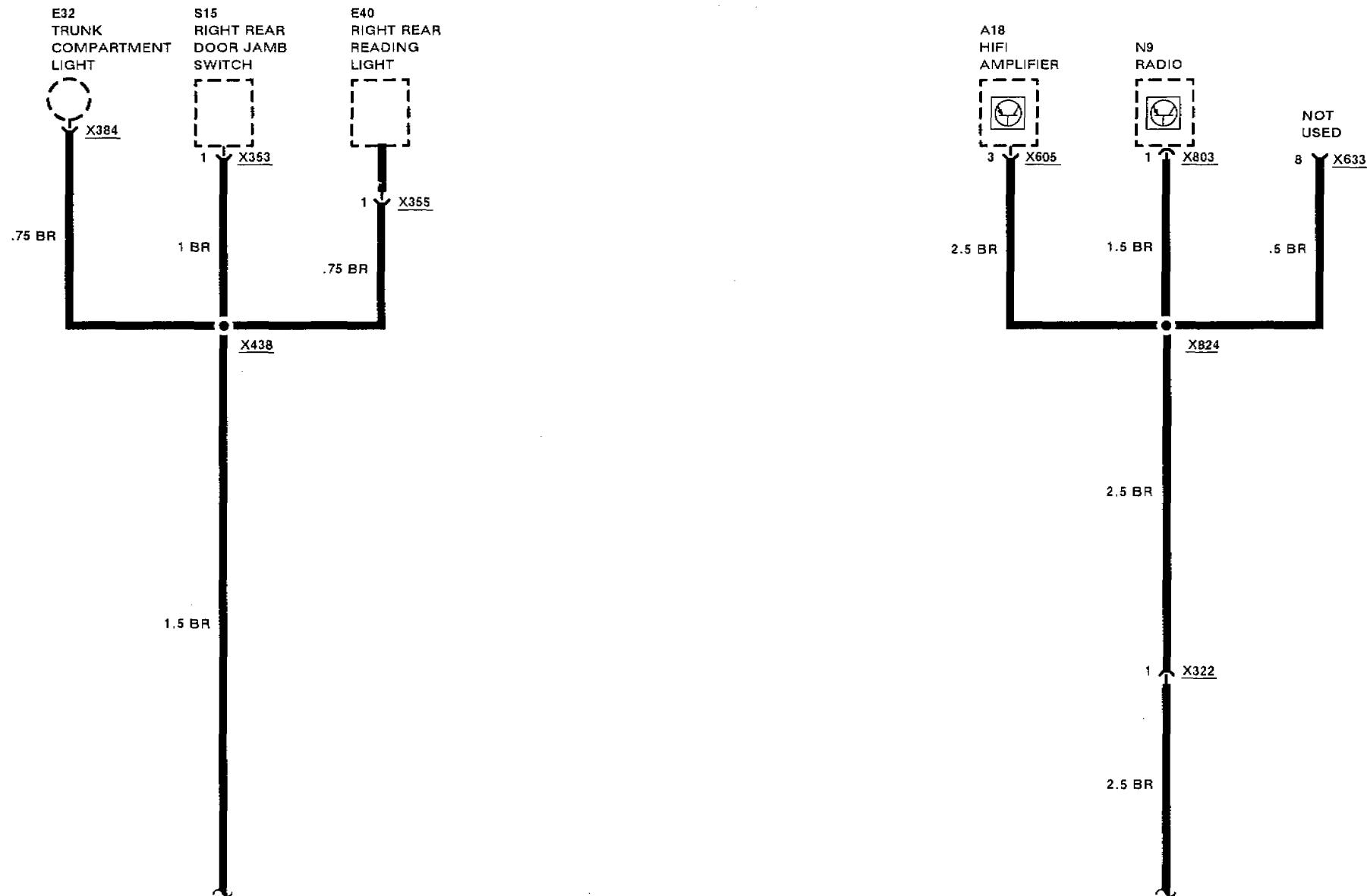


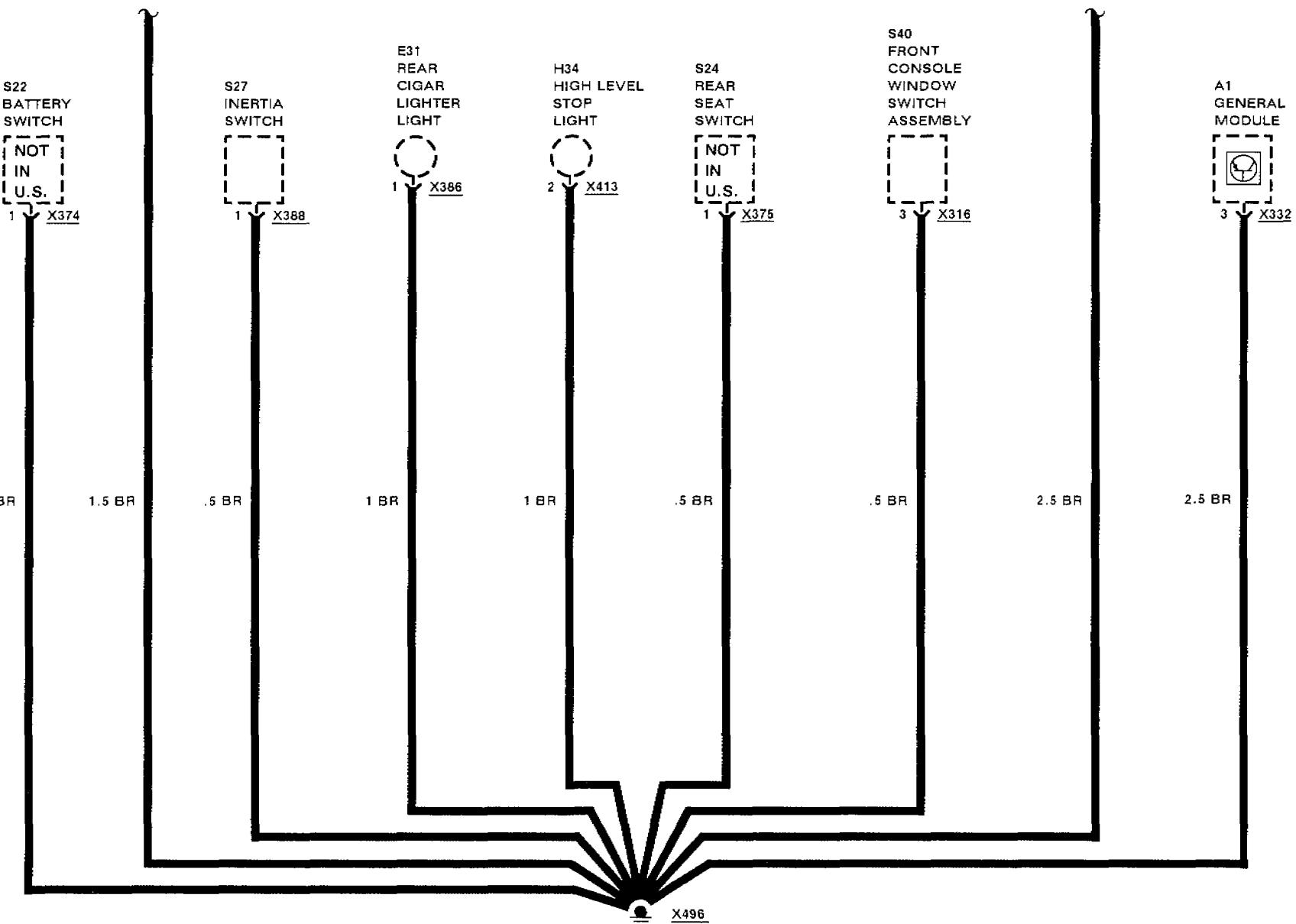




# GROUND DISTRIBUTION

## GROUND X496



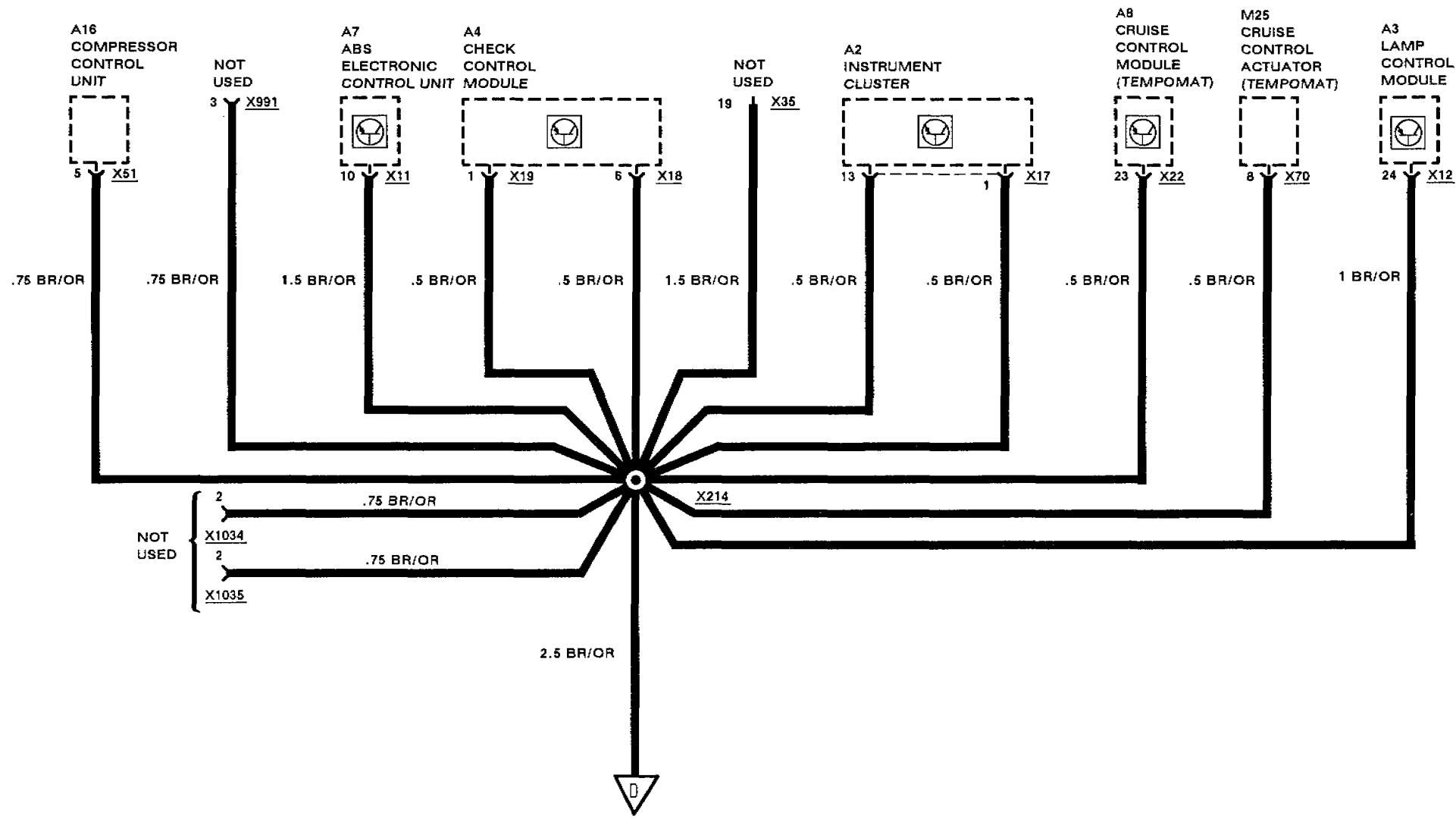




# GROUND DISTRIBUTION

## GROUND X497

2/89



0670.4-14

1989

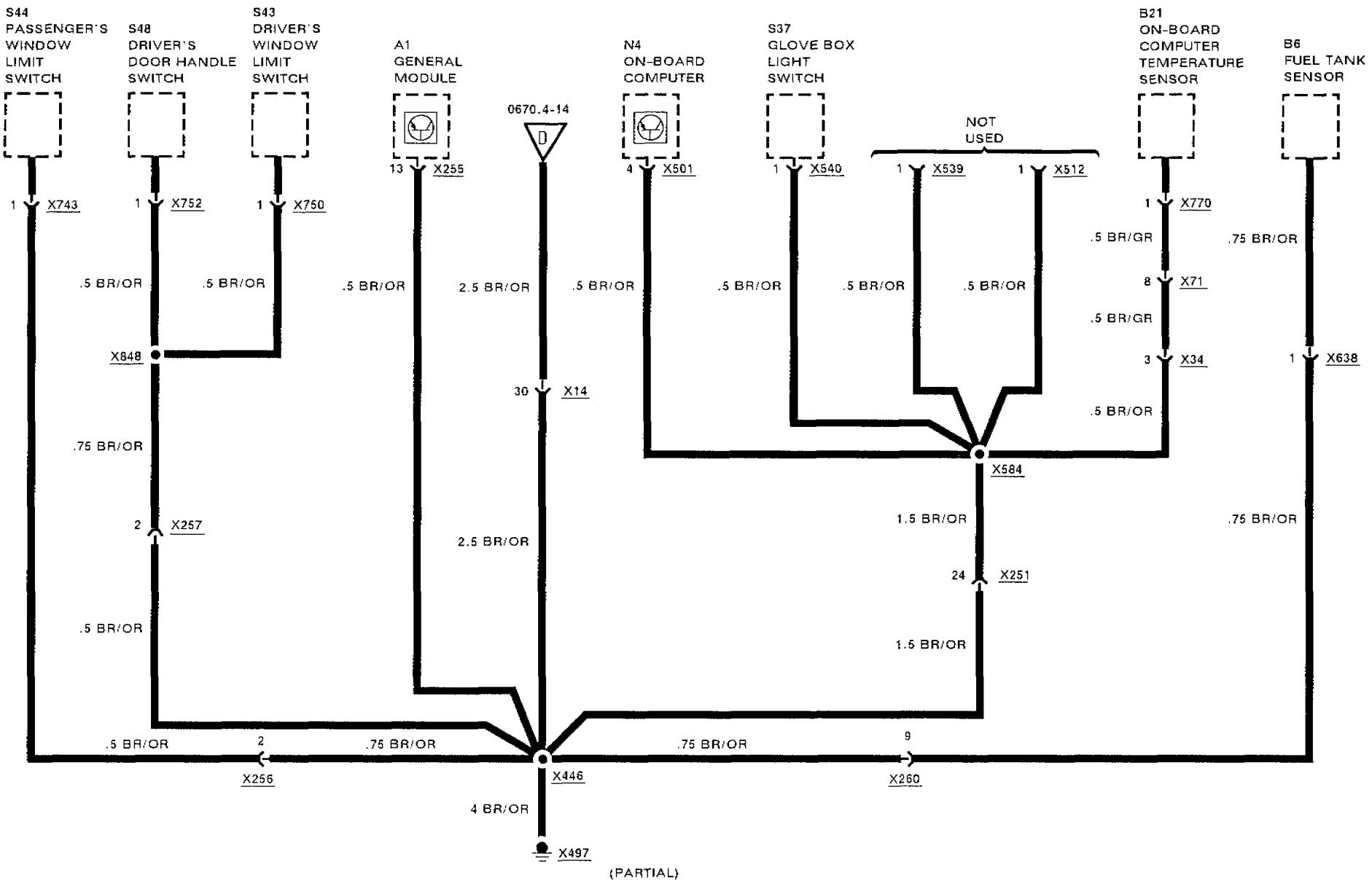
0670.4-15



## GROUND DISTRIBUTION

### GROUND X497

2/89

0670.4-15  
1989



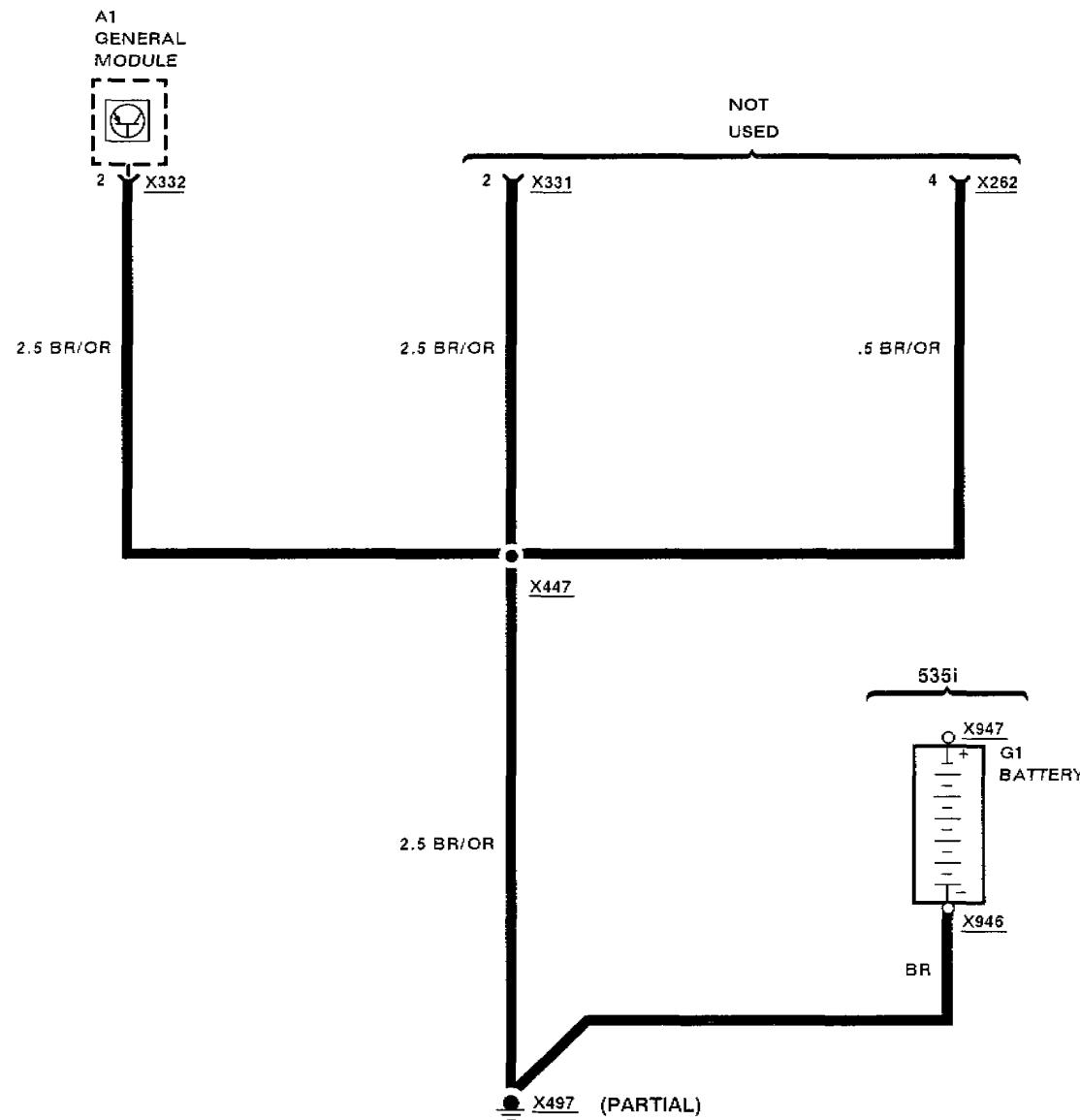
## GROUND DISTRIBUTION

### GROUND X497

2/89

0670.4-16

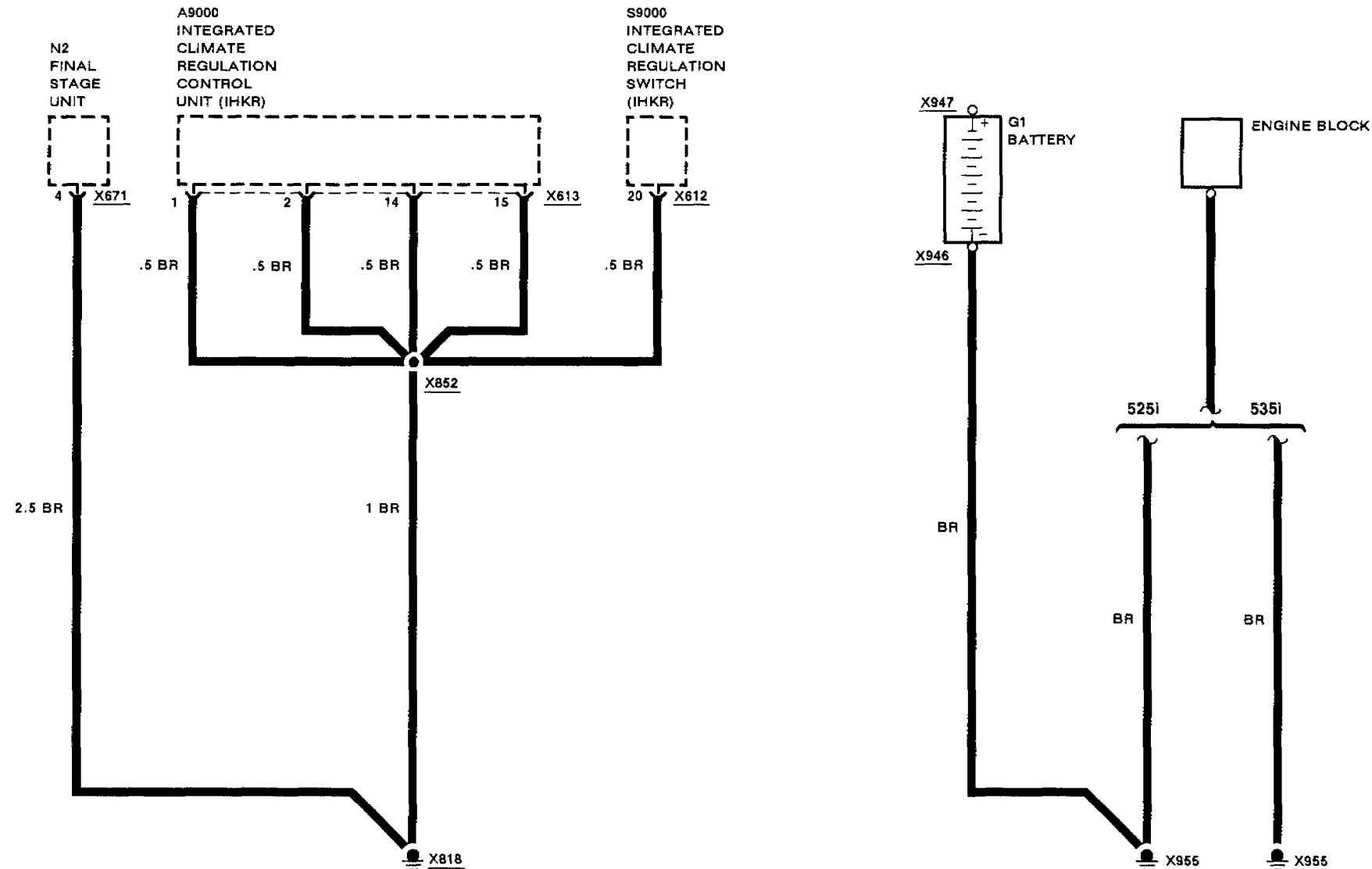
1989





# GROUND DISTRIBUTION

## GROUNDS X818 AND X955





## GROUND DISTRIBUTION

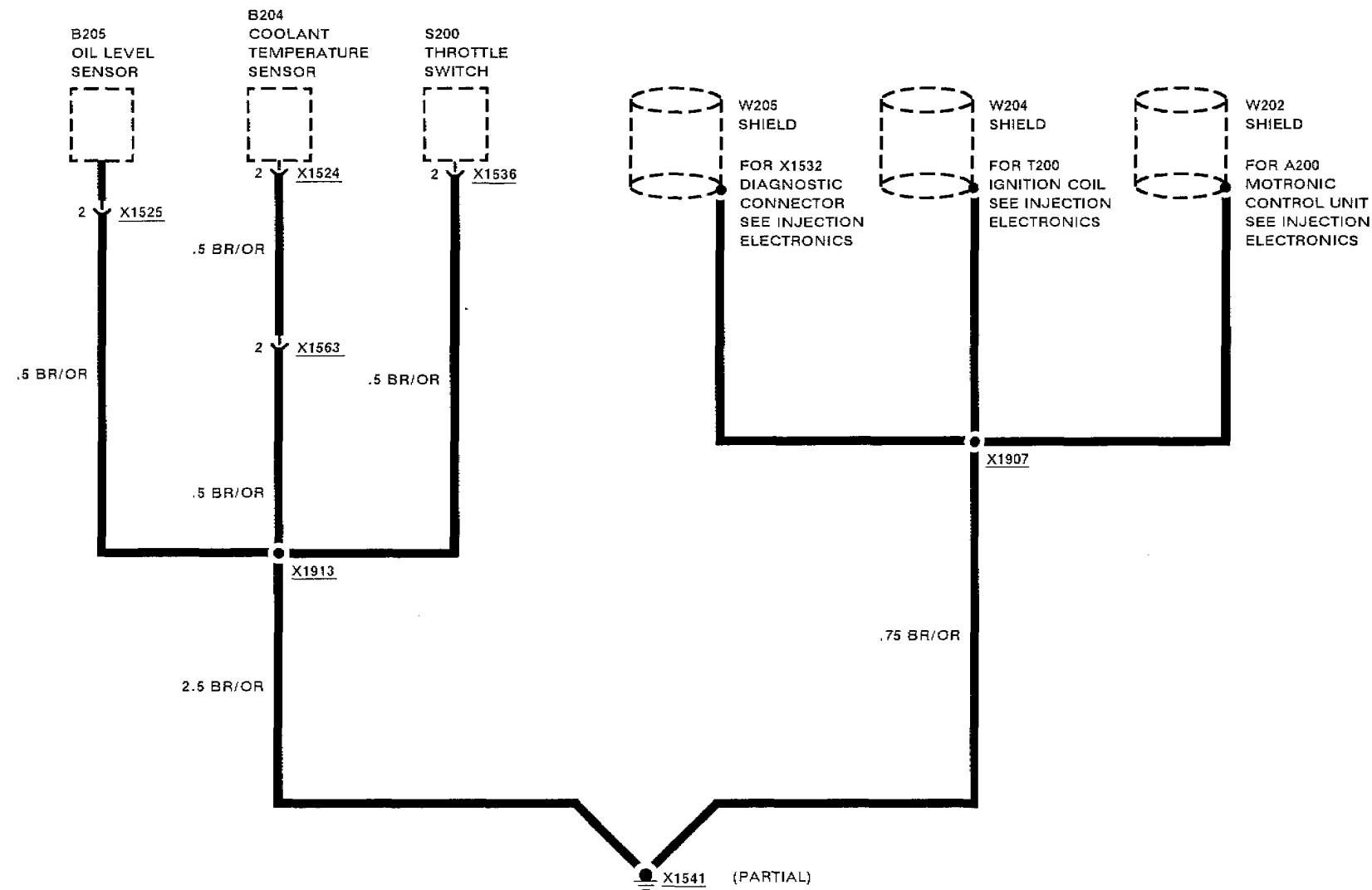
GROUND X1541

525i

2/89

0670.4-18

1989





## GROUND DISTRIBUTION

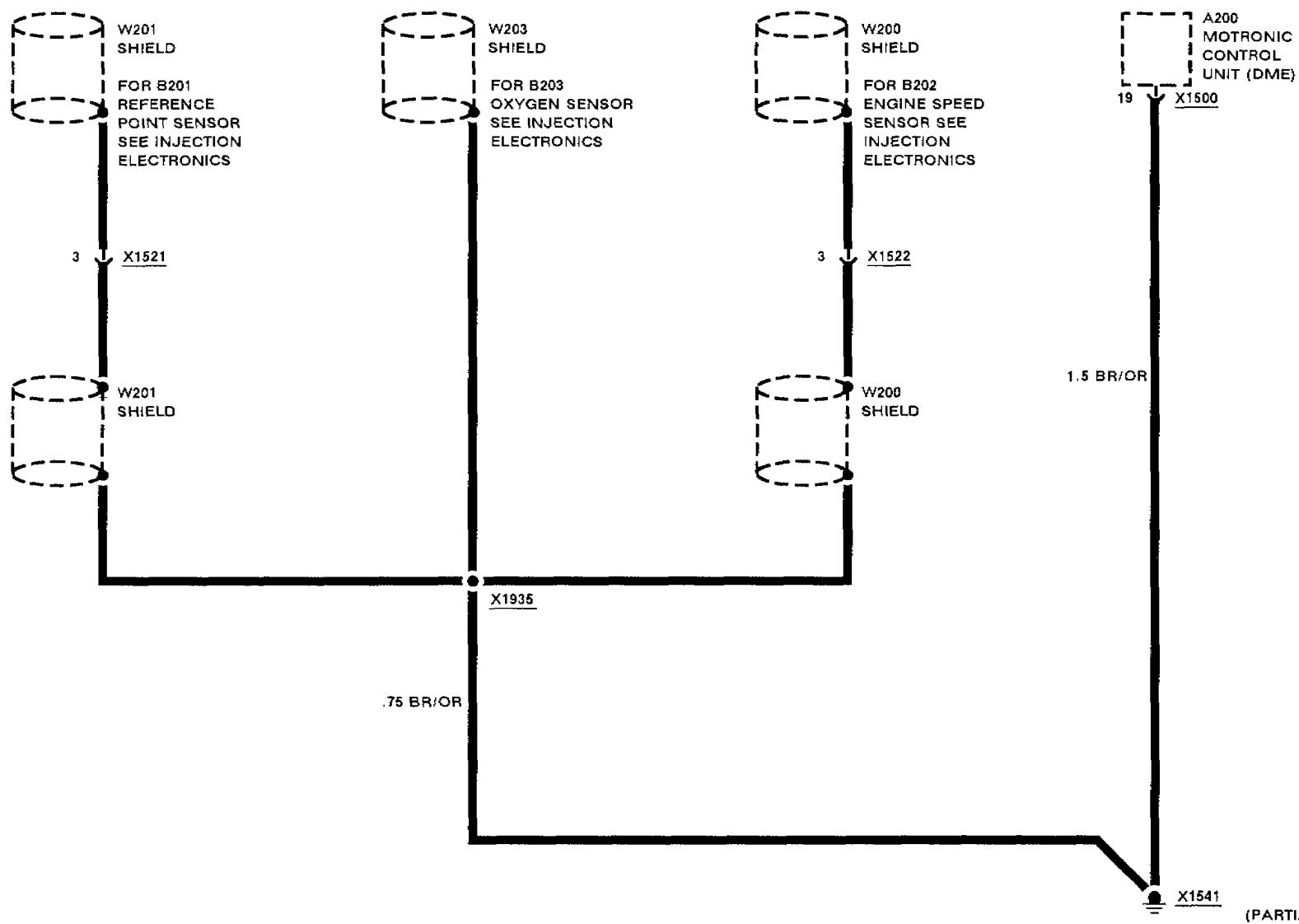
GROUND X1541

525i

2/89

0670.4.19

1989





## GROUND DISTRIBUTION

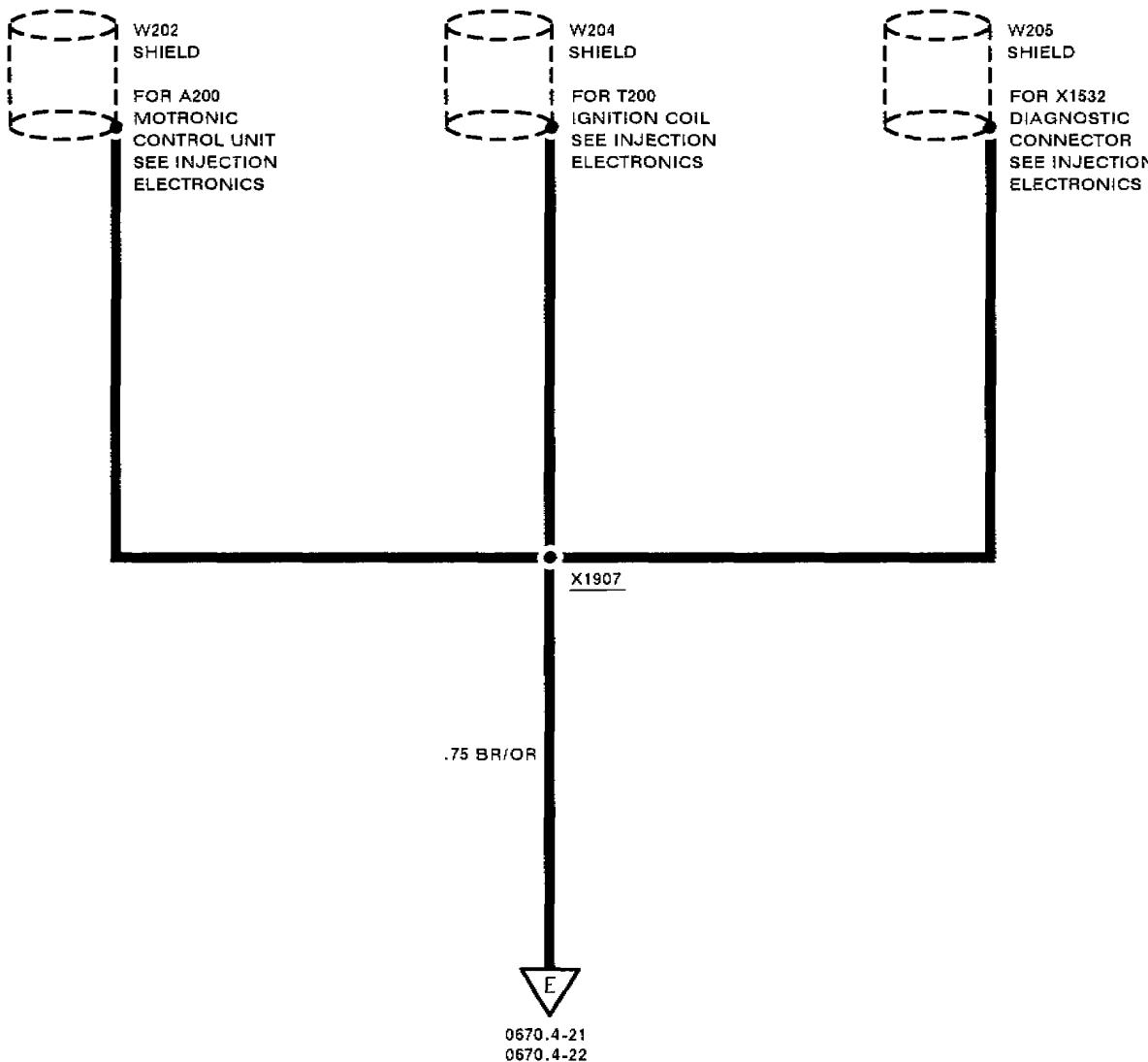
GROUND X1541

535i

2/89

0670.4-20

1989

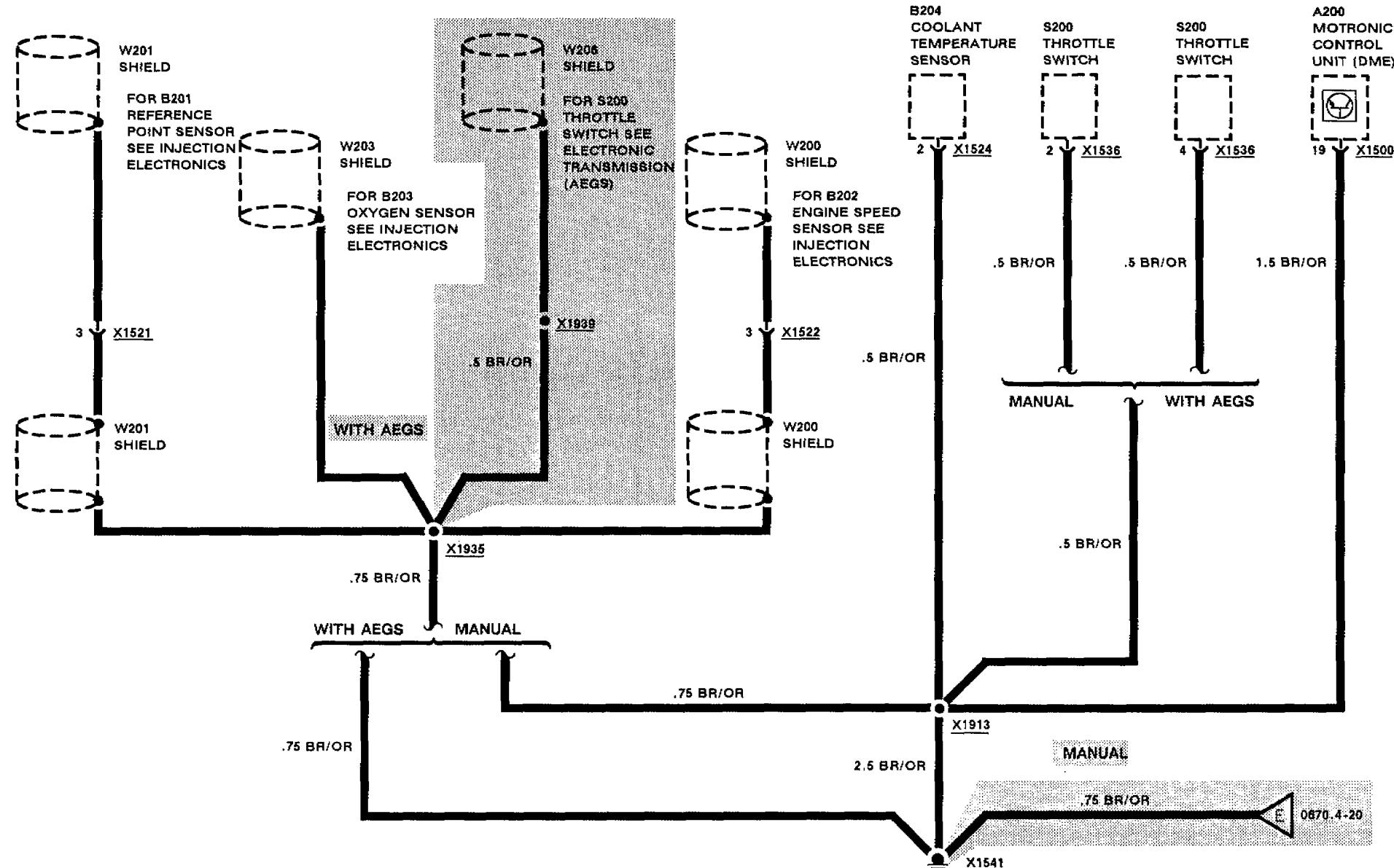




# GROUND DISTRIBUTION

## GROUND X1541

535i



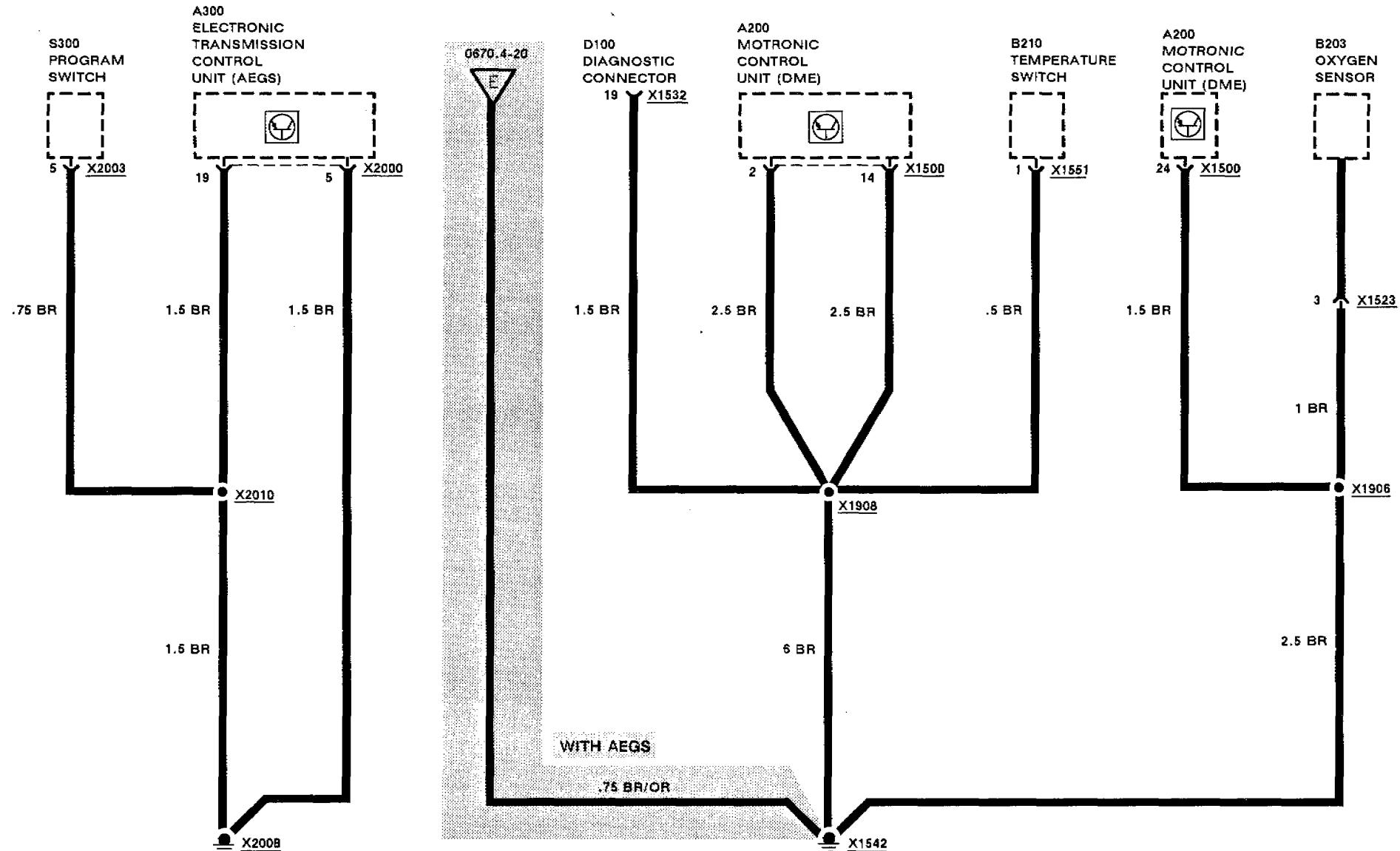


## GROUND DISTRIBUTION

GROUND X1542 AND X2008

535i

2/89





## GROUND DISTRIBUTION

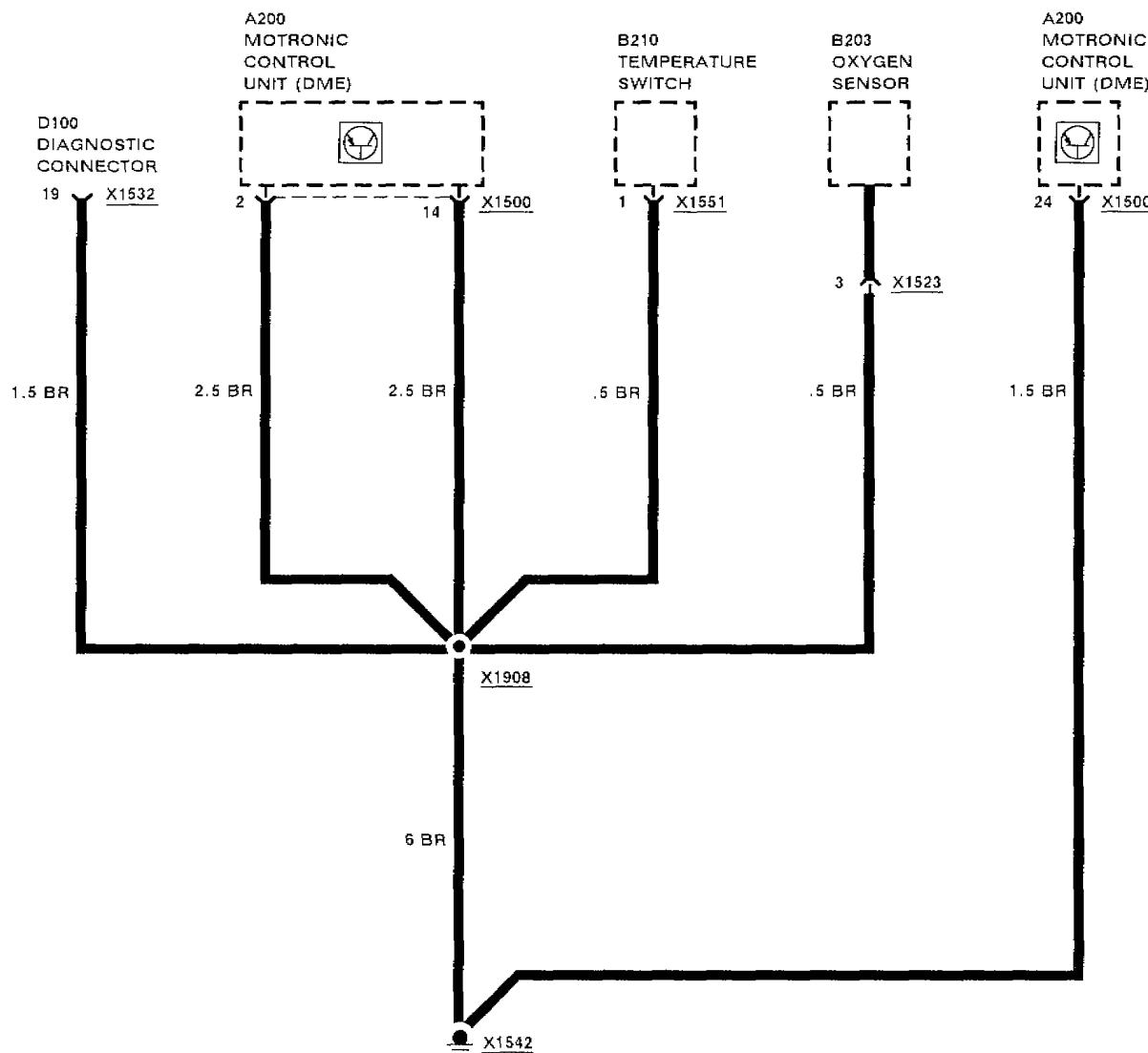
GROUND X1542

525i

2/89

0670.4-23

1989

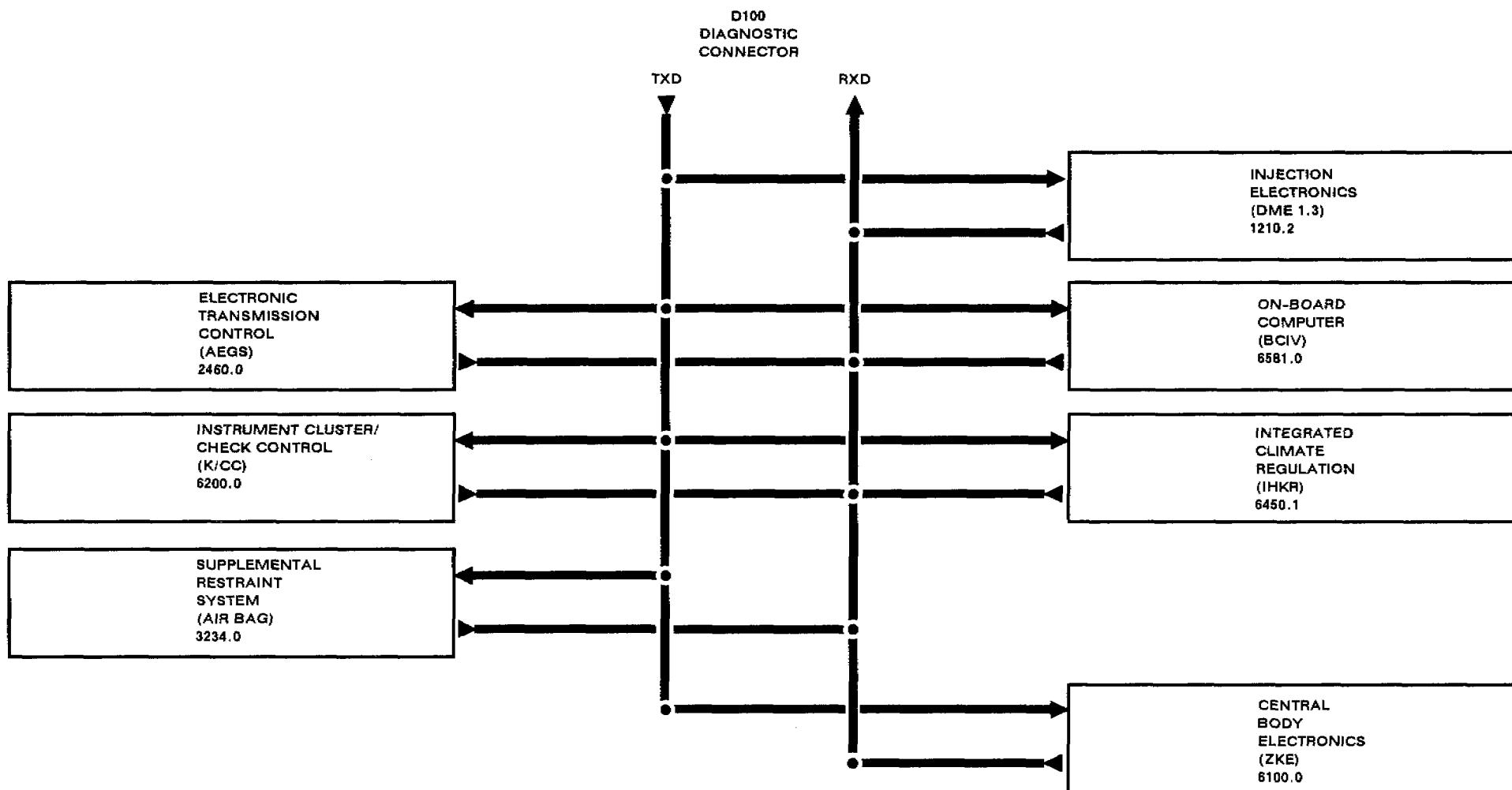




# DIAGNOSTIC LINK

## BLOCK DIAGRAM

2/89



0670.5.00

1989



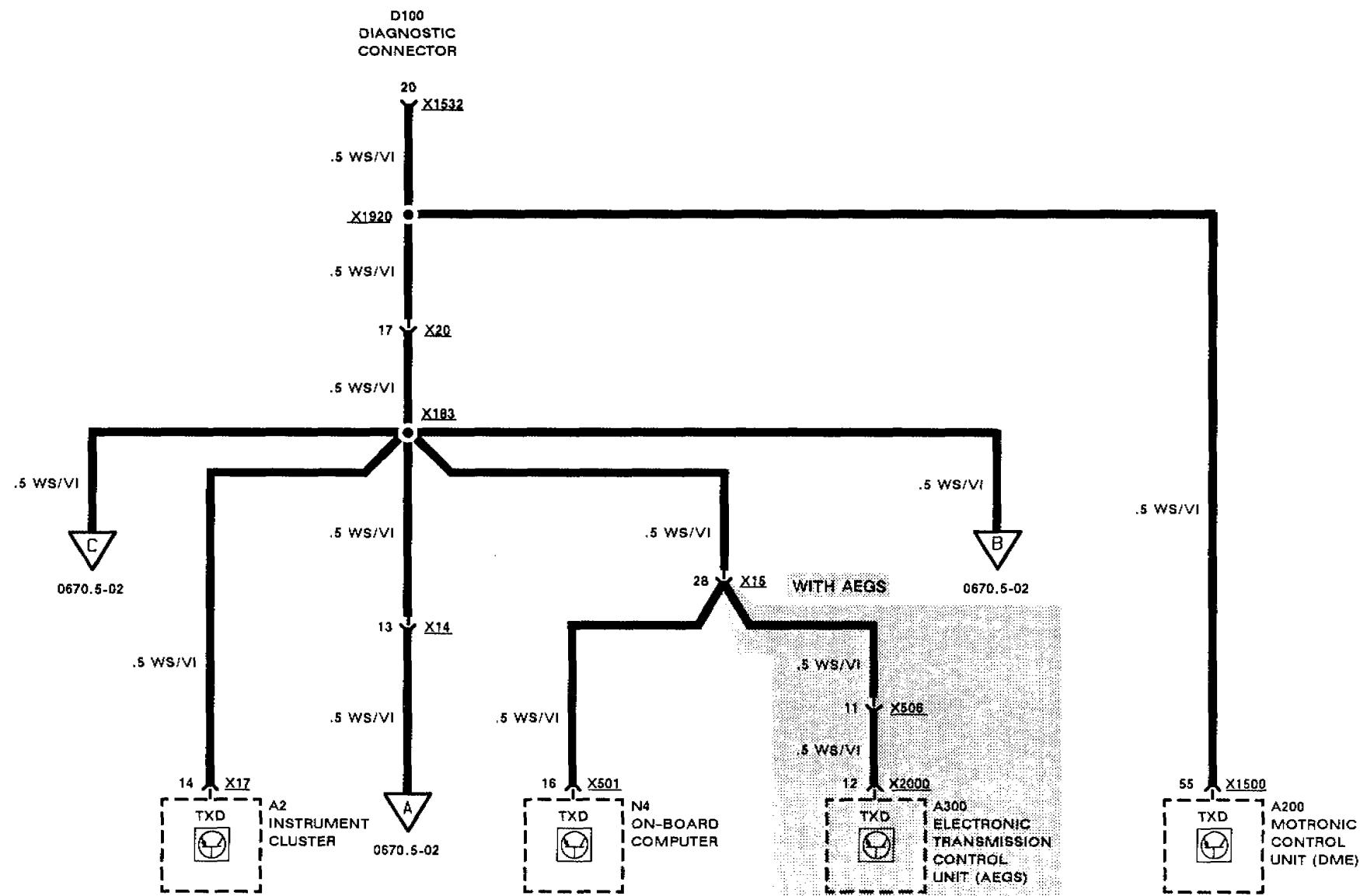
## DIAGNOSTIC LINK

TXD

2/89

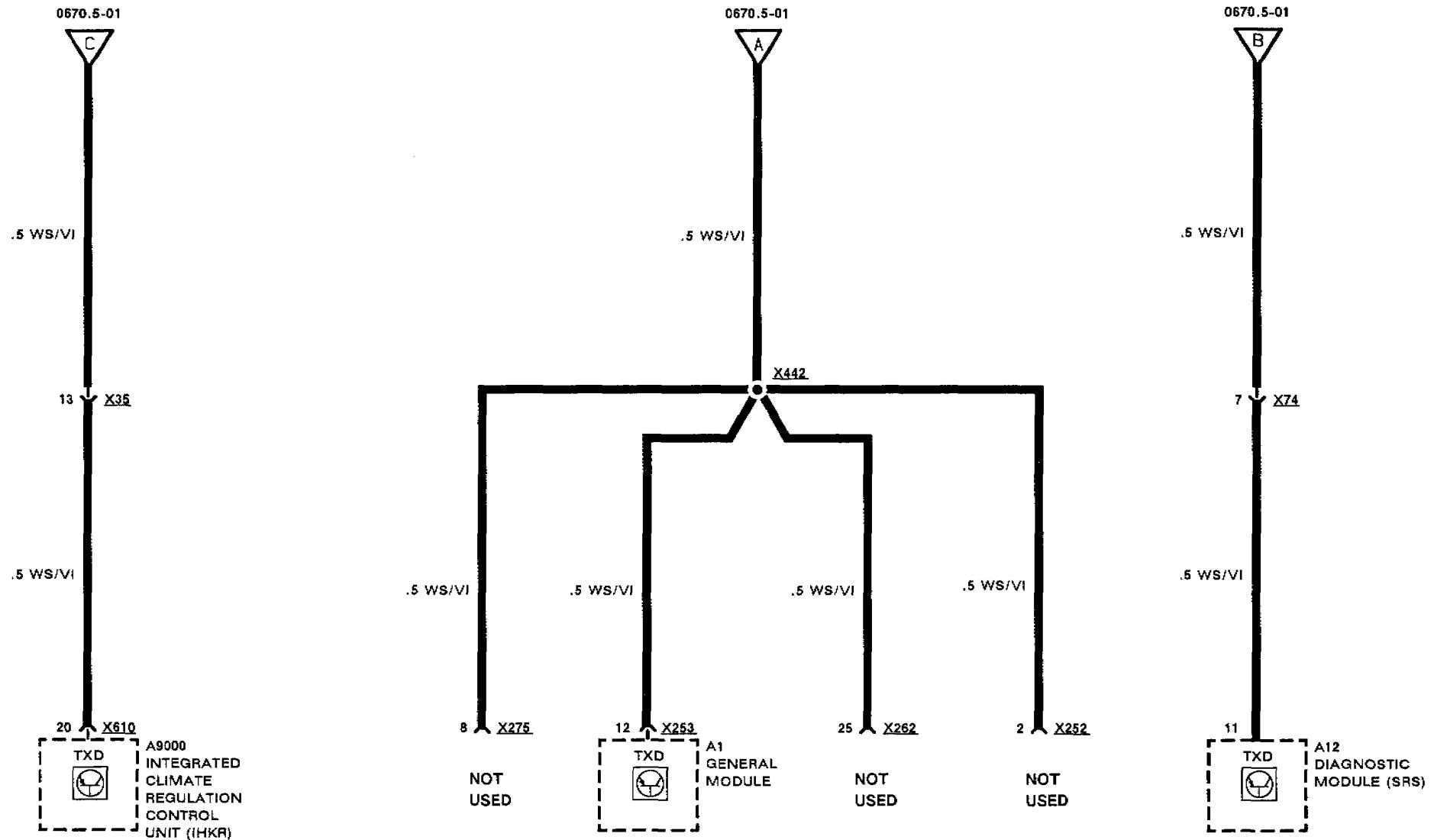
0670.5-01

1989



**BMW**  
**5** **DIAGNOSTIC LINK**  
**TXD**

2/89



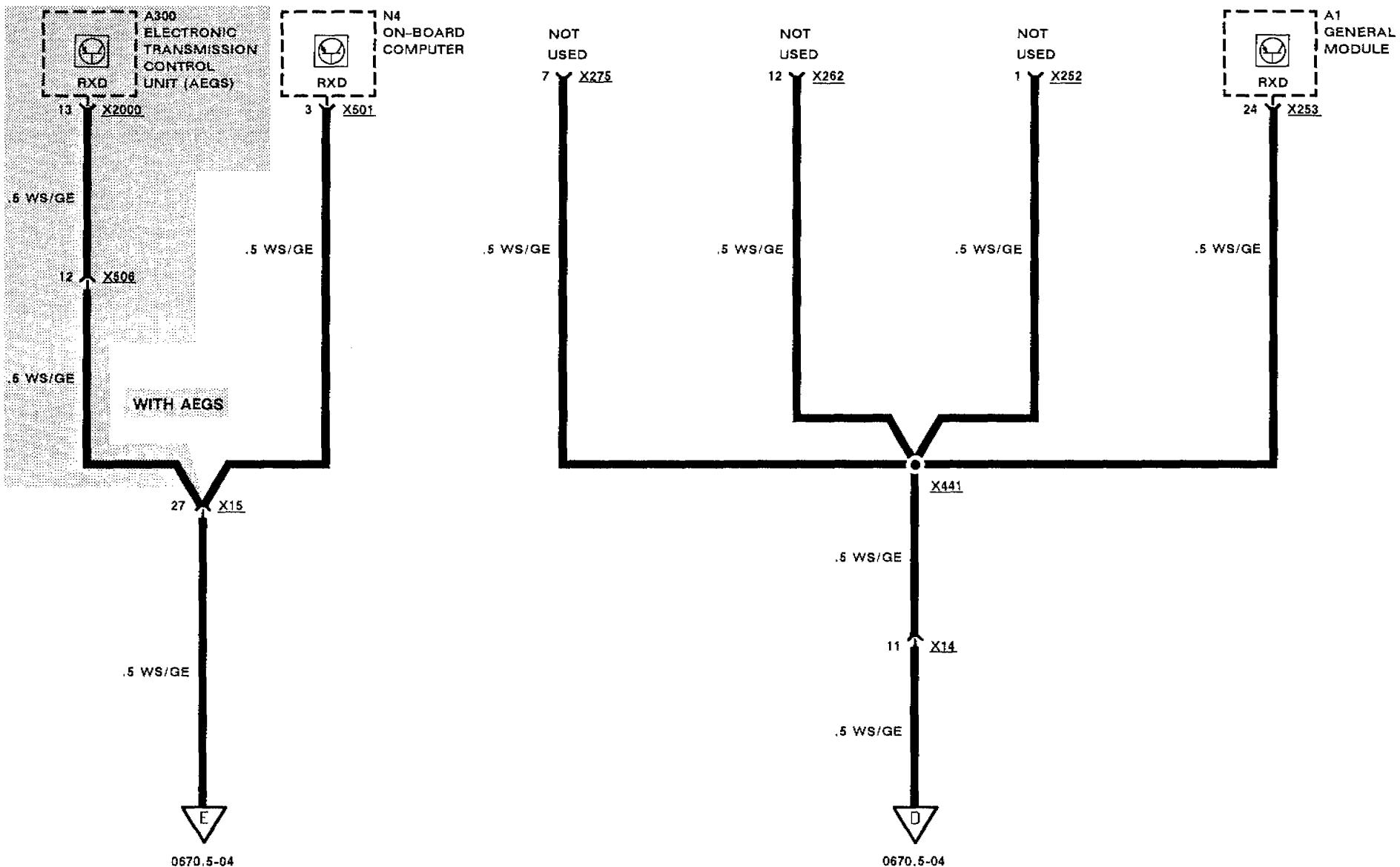
0670.5-02

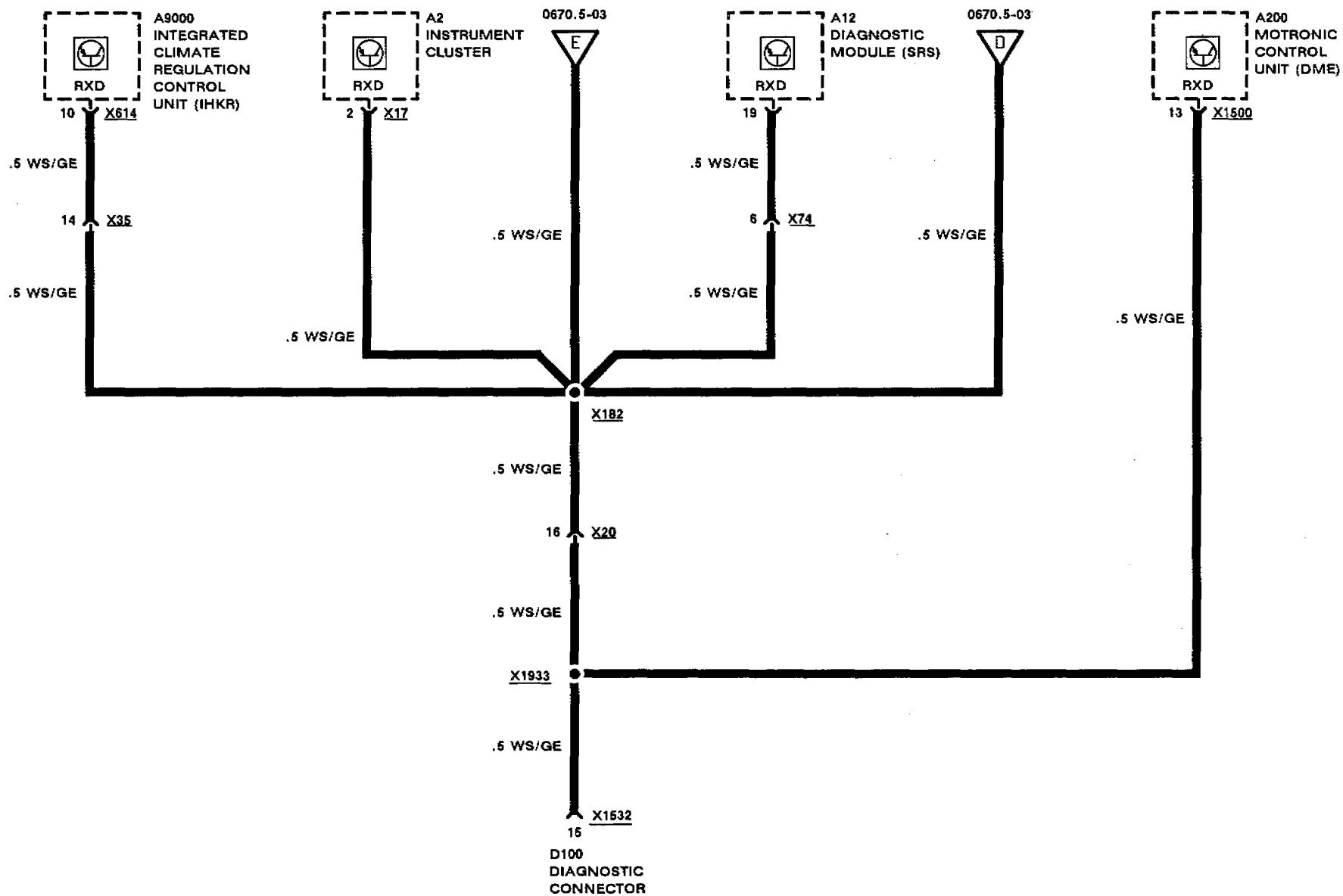
1989

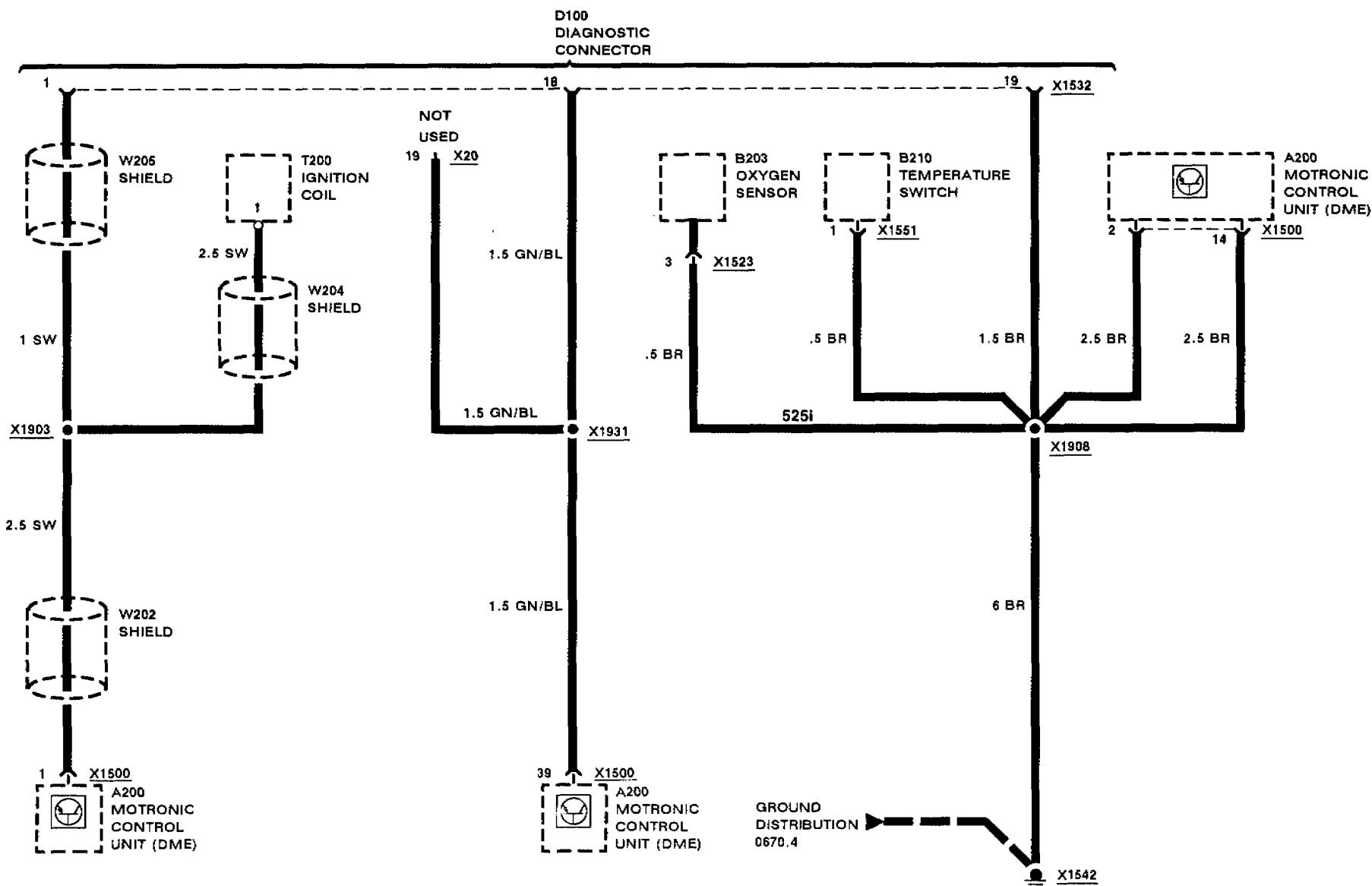


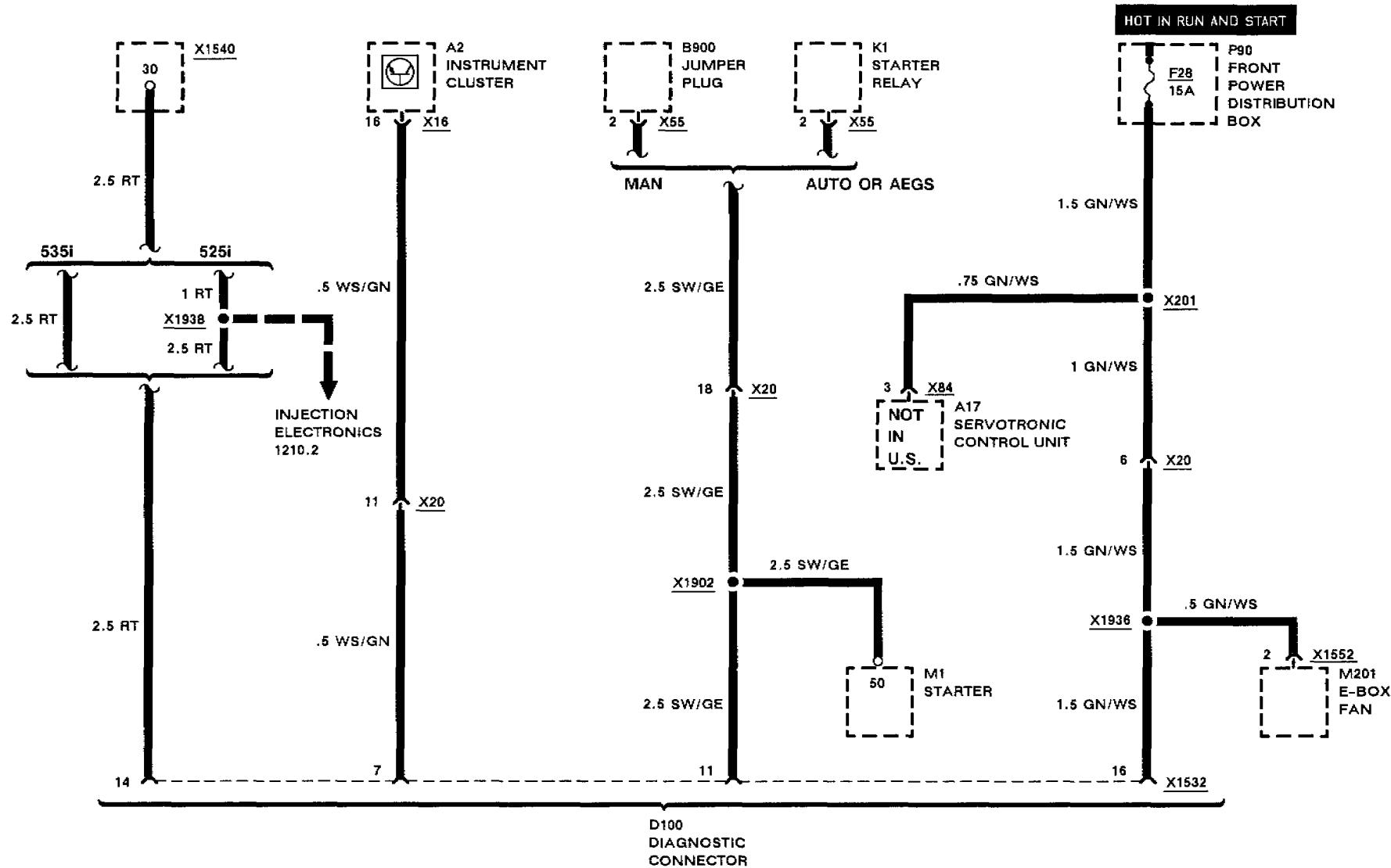
# DIAGNOSTIC LINK

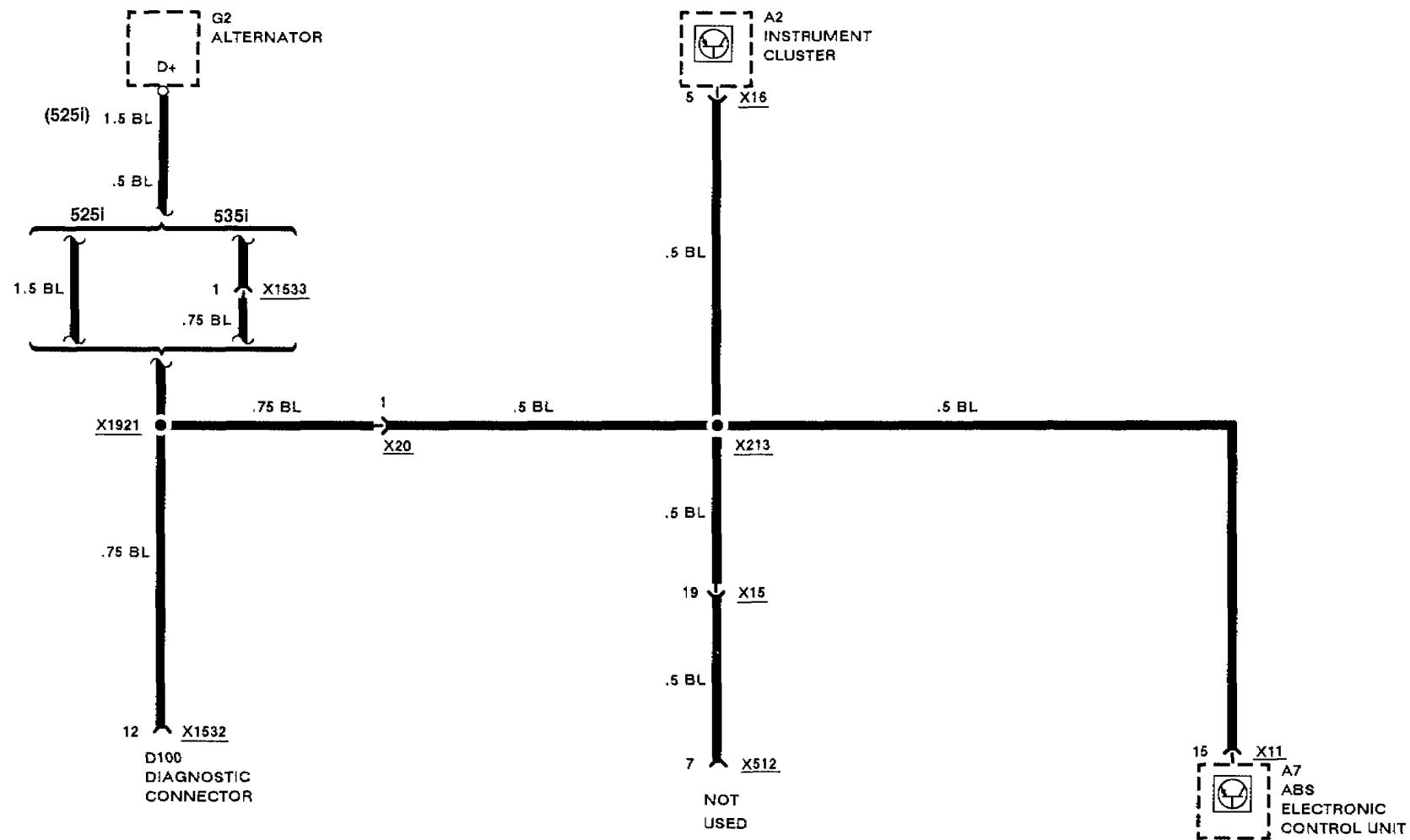
## RXD



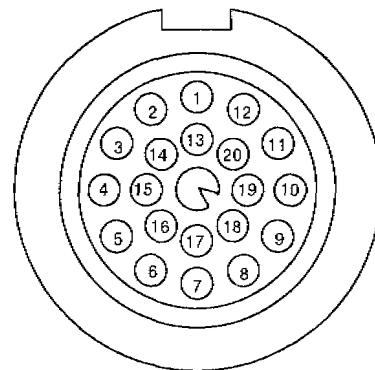




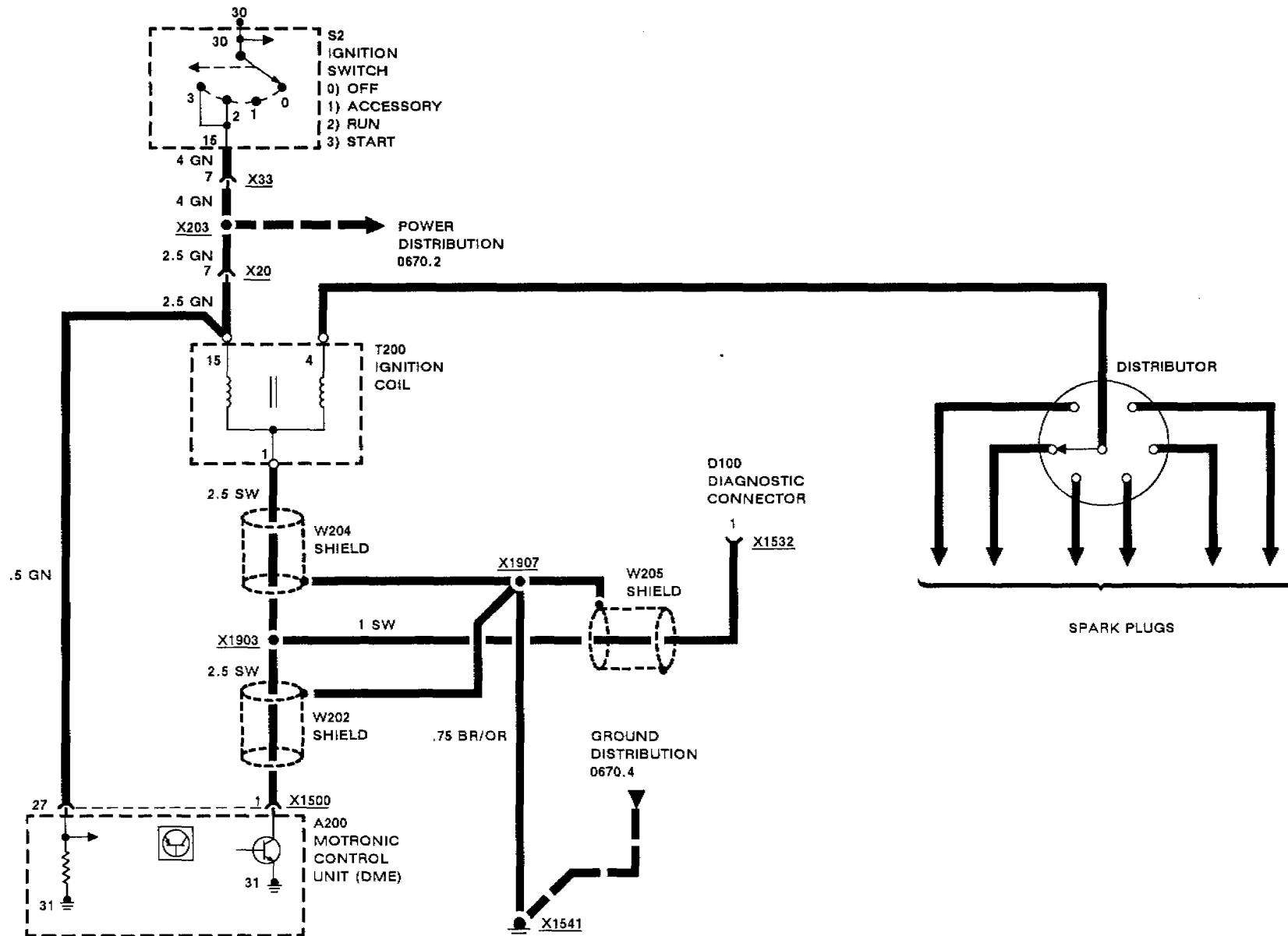


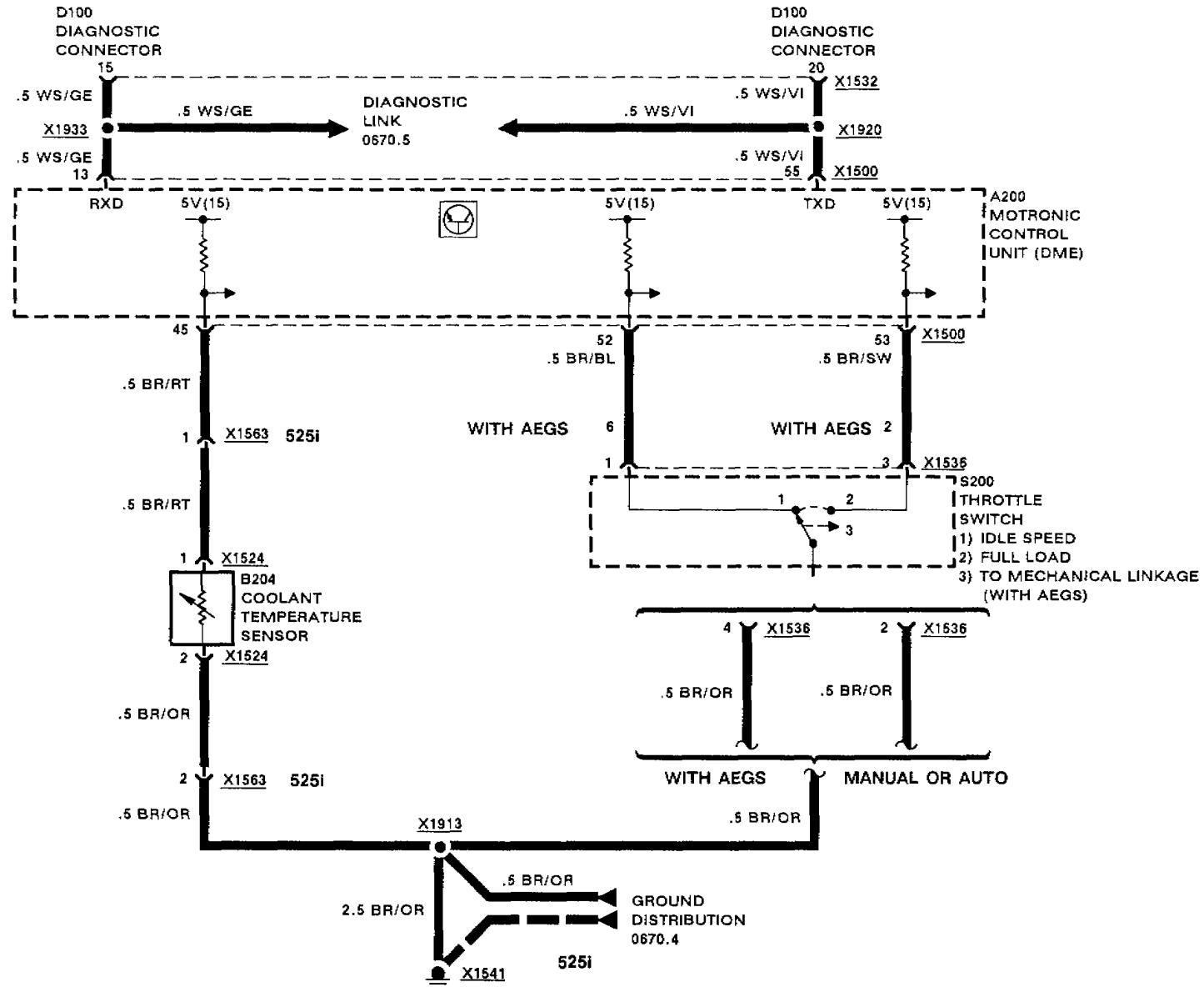


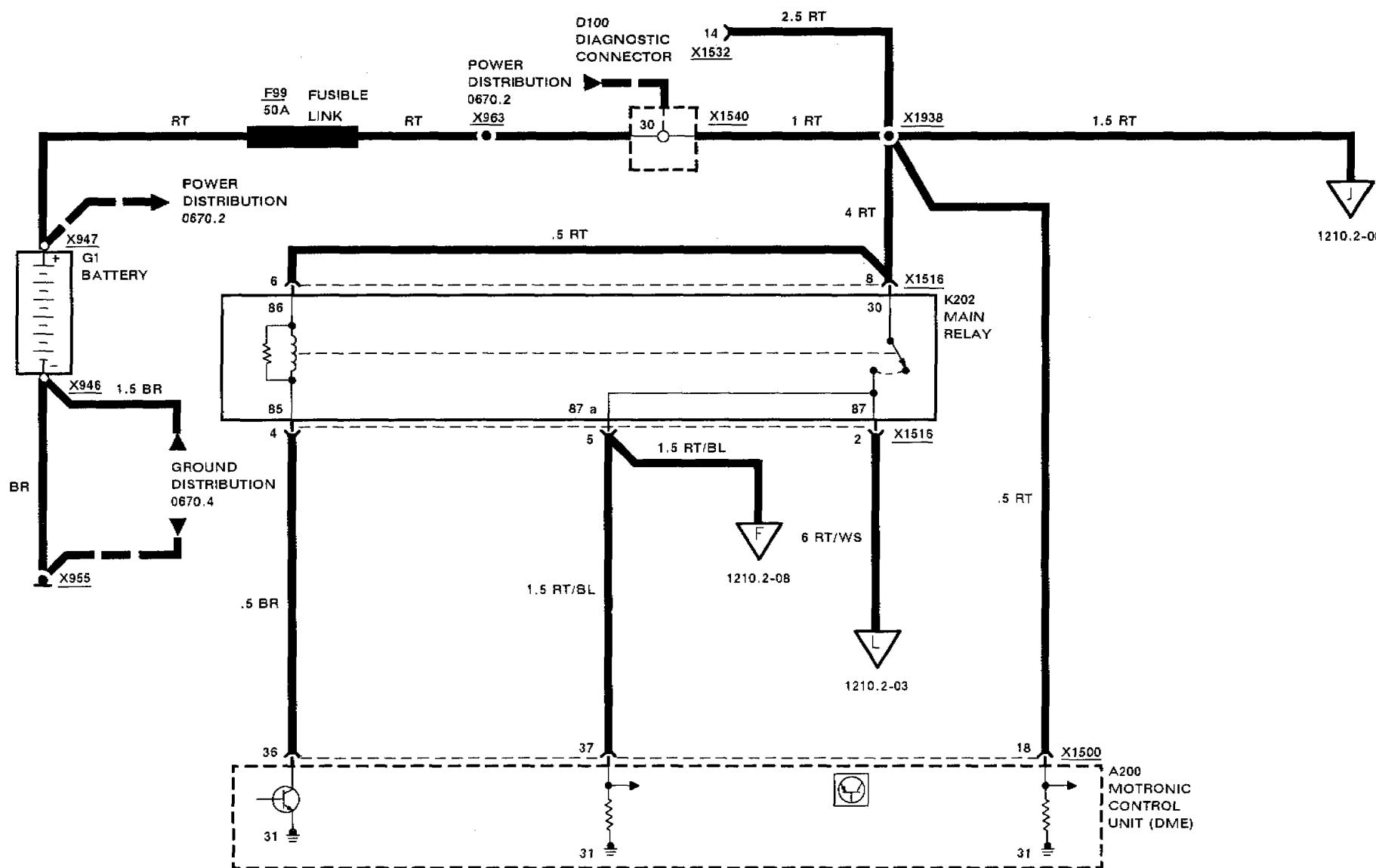
TXD	
	(.5 WS/VI) 20
GROUND X1542	
A200 MOTRONIC CONTROL UNIT (1210.2)	
	(1.5 GN/BL) 18
NOT USED	
	17
M201 E-BOX FAN (1290.0)	
A17 SERVOTRONIC CONTROL UNIT (3240.0)	
FUSE 28 (0670.3)	(1.5 GN/WS) 16
RXD	
	(.5 WS/GE) 15
X1540 B+ JUNCTION POST (1210.2)	
FOR E-BOX	
	(2.5 RT) 14
NOT USED	
	13
G2 ALTERNATOR (1230.0)	
A2 INSTRUMENT CLUSTER (6200.0)	
A7 ABS CONTROL UNIT (3450.0)	(.75 BL) 12
B900 JUMPER PLUG (1240.0)	
K1 STARTER RELAY (1240.0)	
M1 STARTER (1240.0)	(2.5 SW/GE) 11



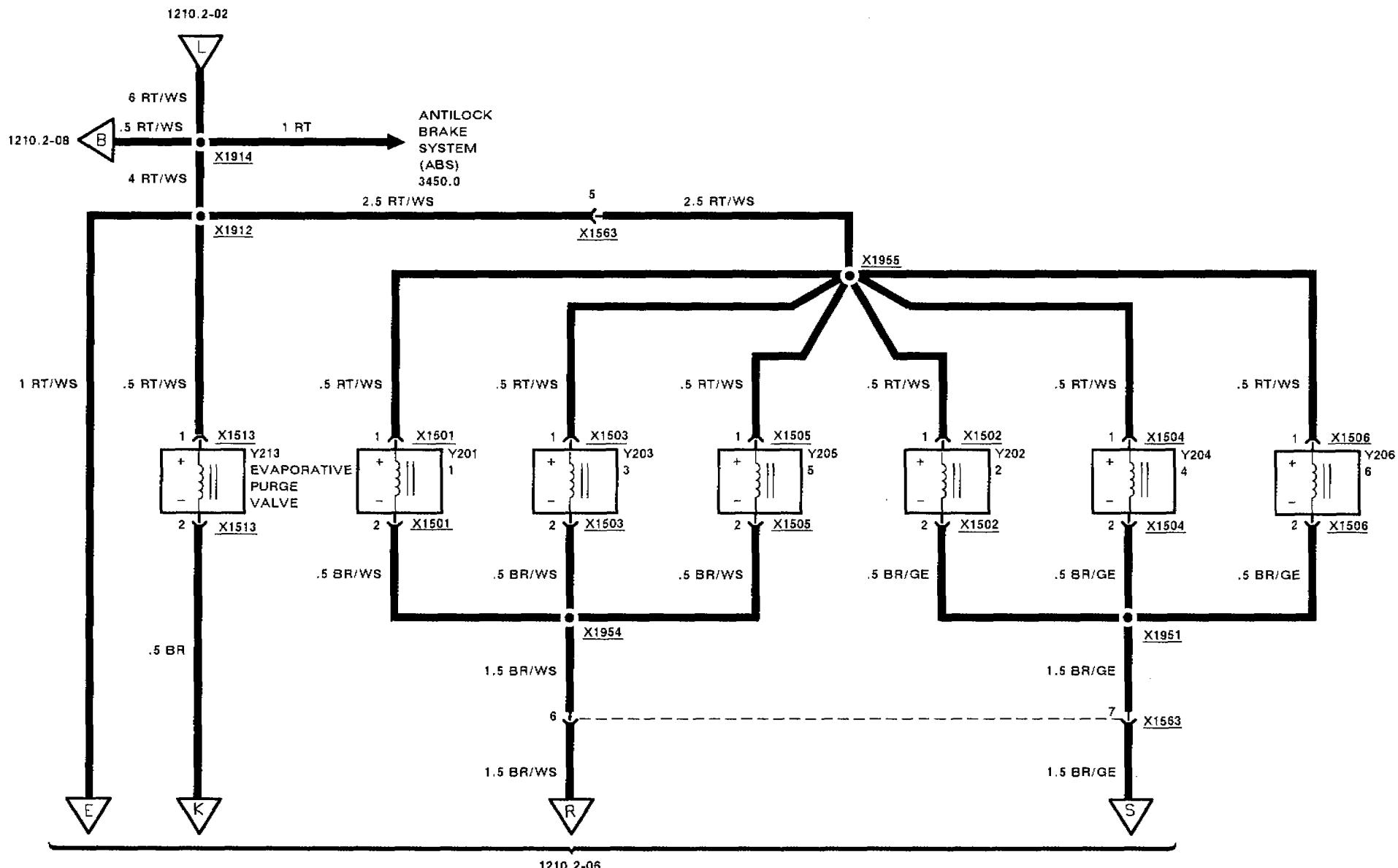
NOT USED	
10	NOT USED
9	NOT USED
8	NOT USED
A2 INSTRUMENT CLUSTER (6200.0)	
7 (.5 WS/GN)	
6	NOT USED
5	NOT USED
4	NOT USED
3	NOT USED
2	NOT USED
T200 IGNITION COIL (1210.2)	
A200 MOTRONIC CONTROL UNIT (1210.2)	
1 (1 SW)	





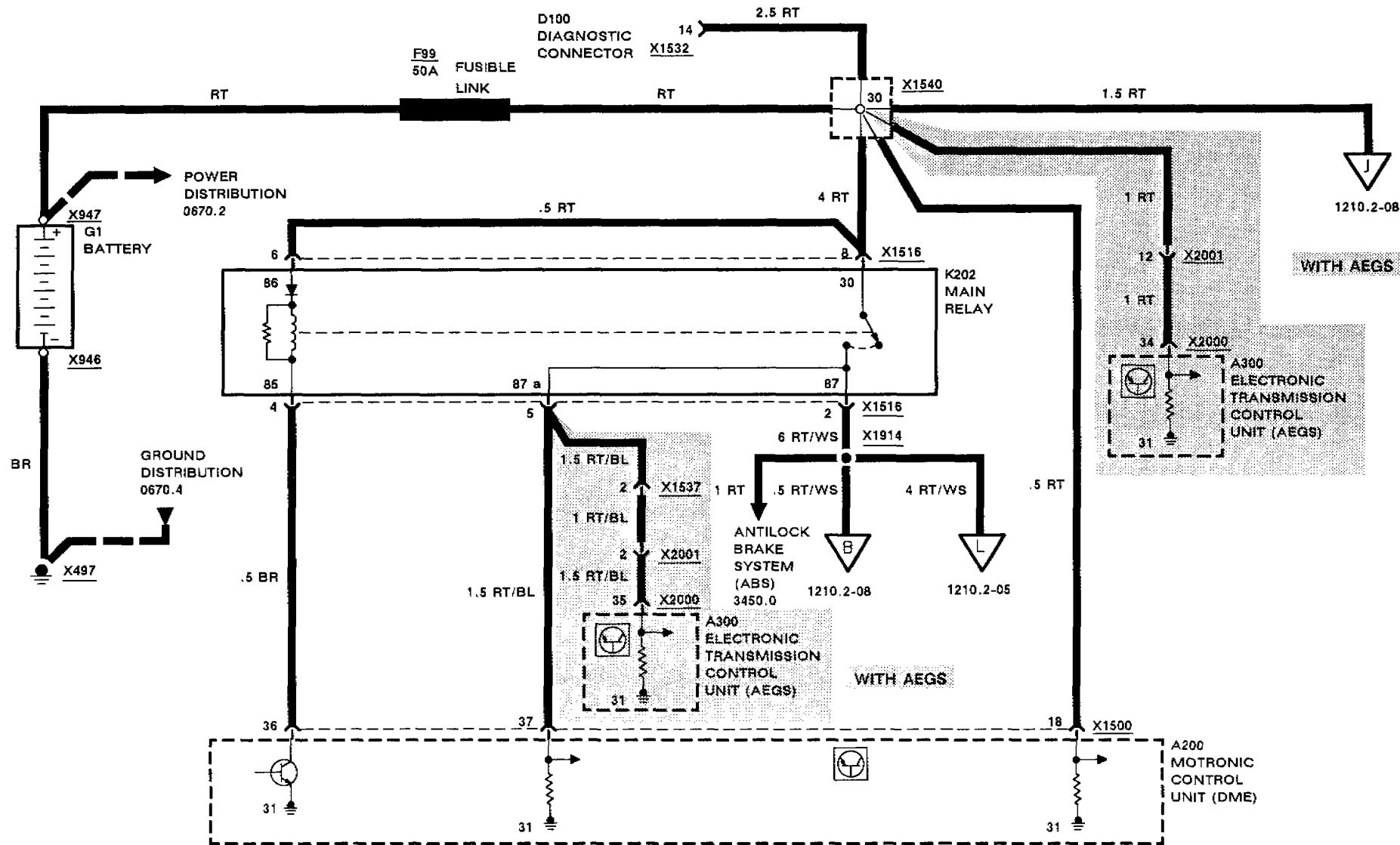


## **FUEL INJECTORS**



1210.2-03

6861





# INJECTION ELECTRONICS (DME 1.3)

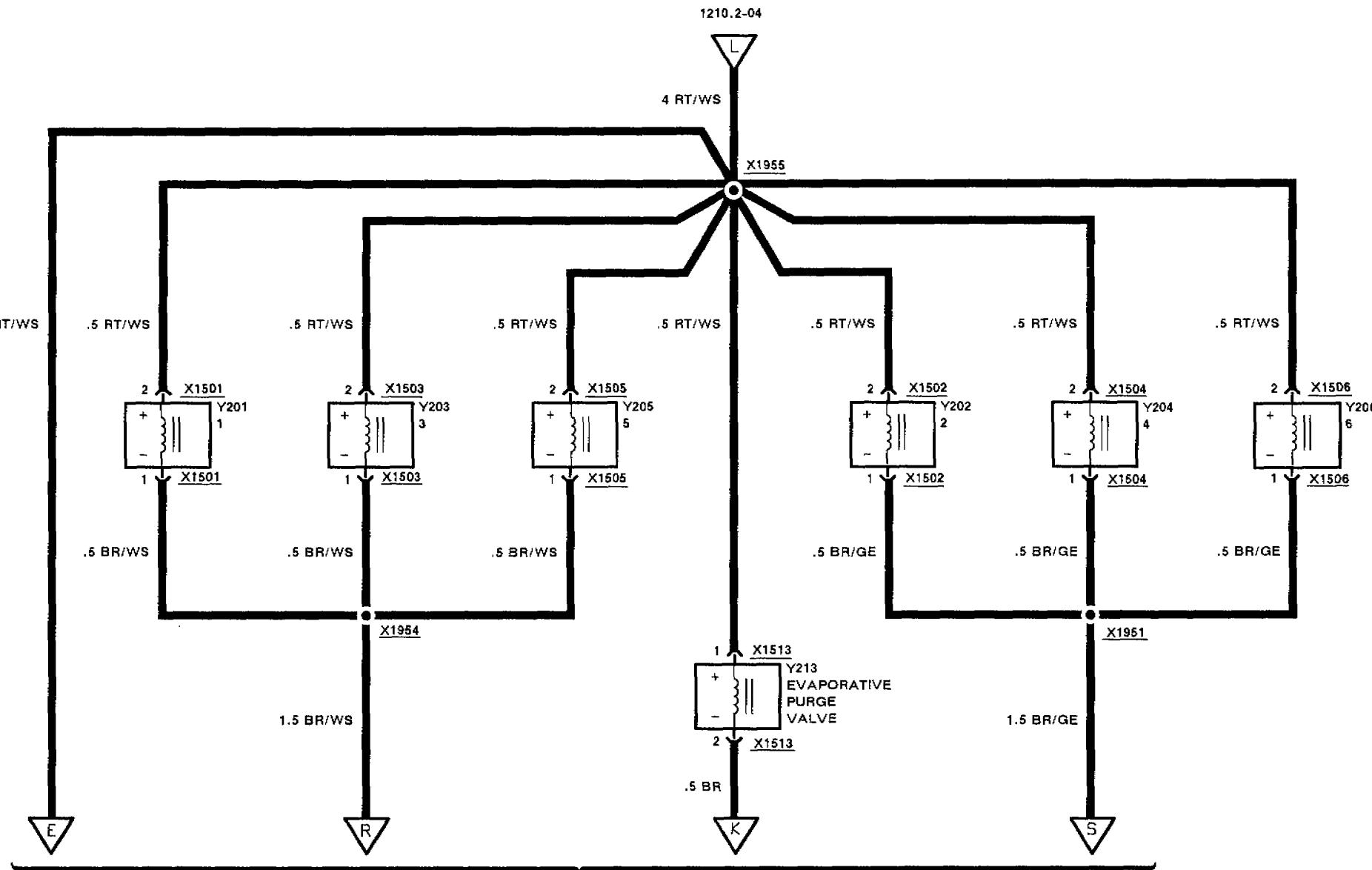
## FUEL INJECTORS

535i

2/89

1210.2-05

1989

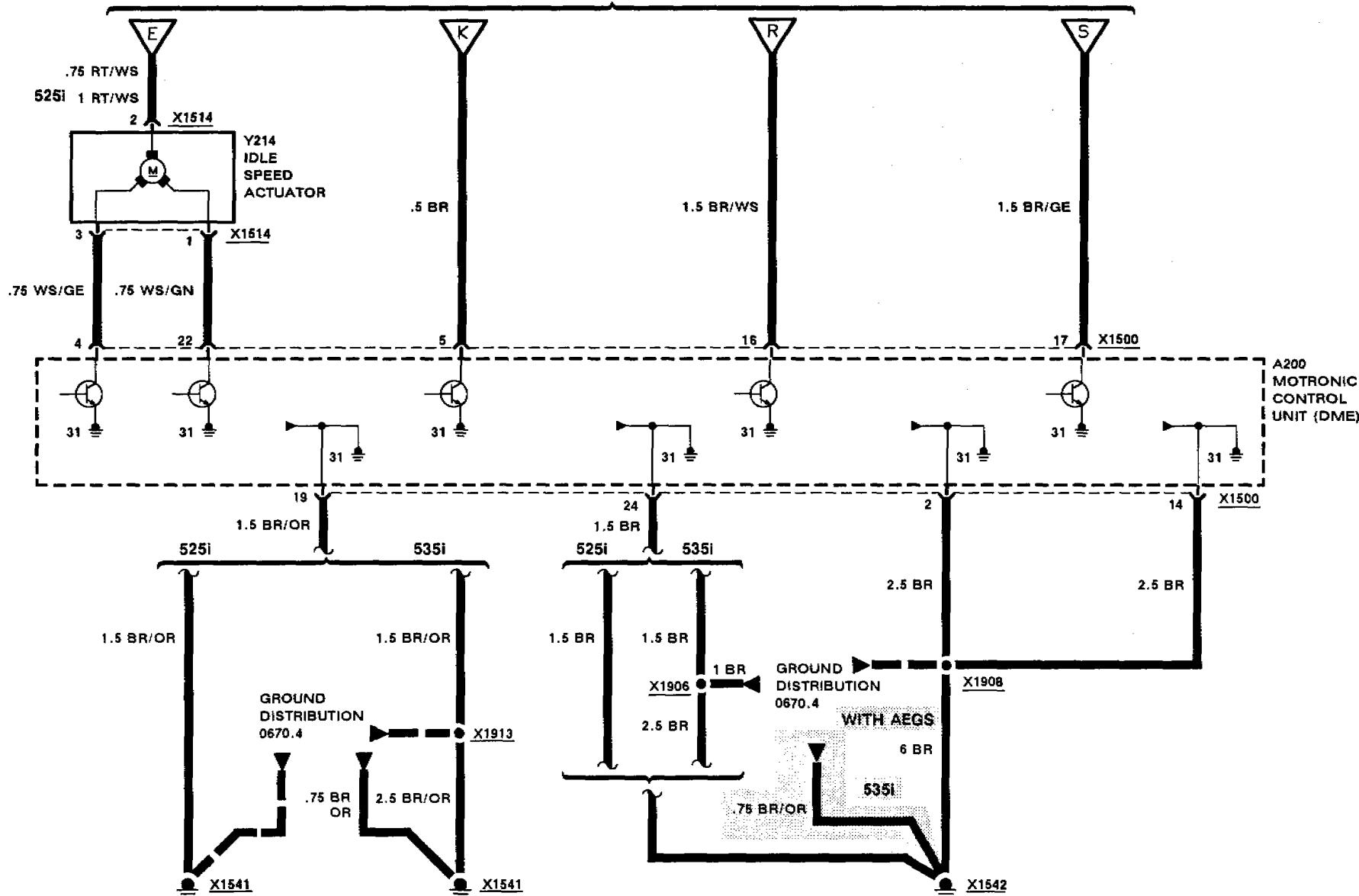




## INJECTION ELECTRONICS (DME 1.3)

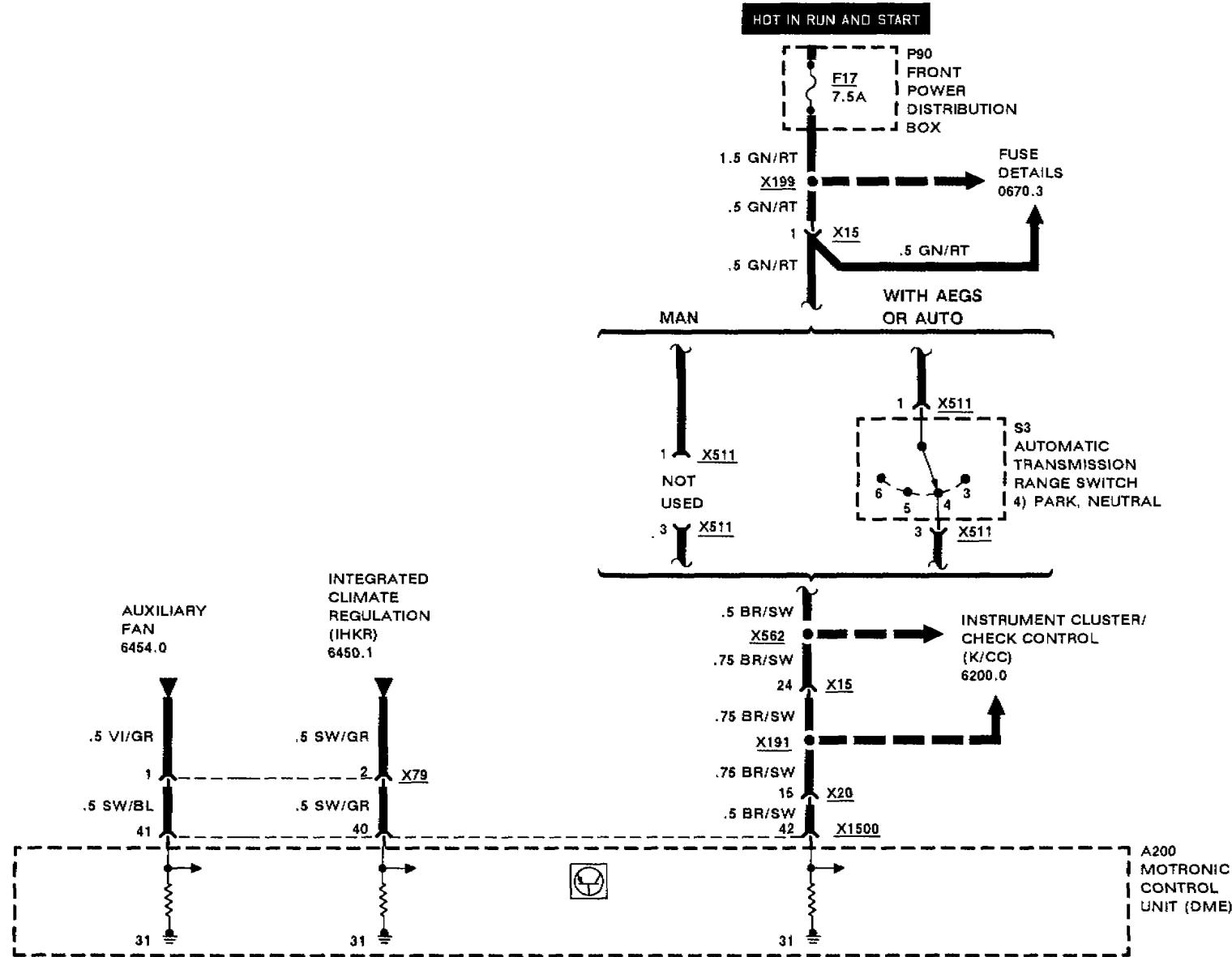
1210.2-03  
1210.2-05

2/89

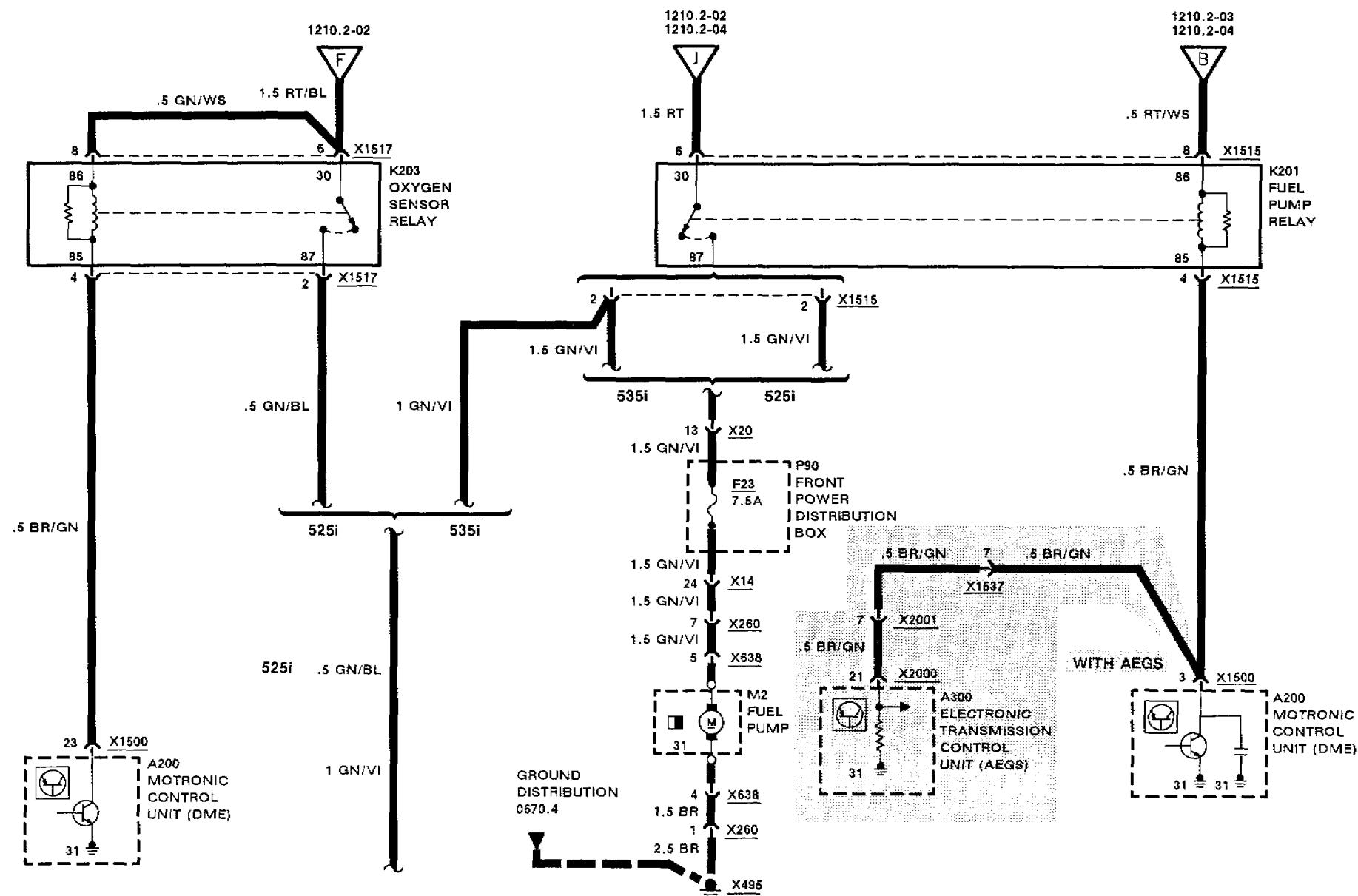


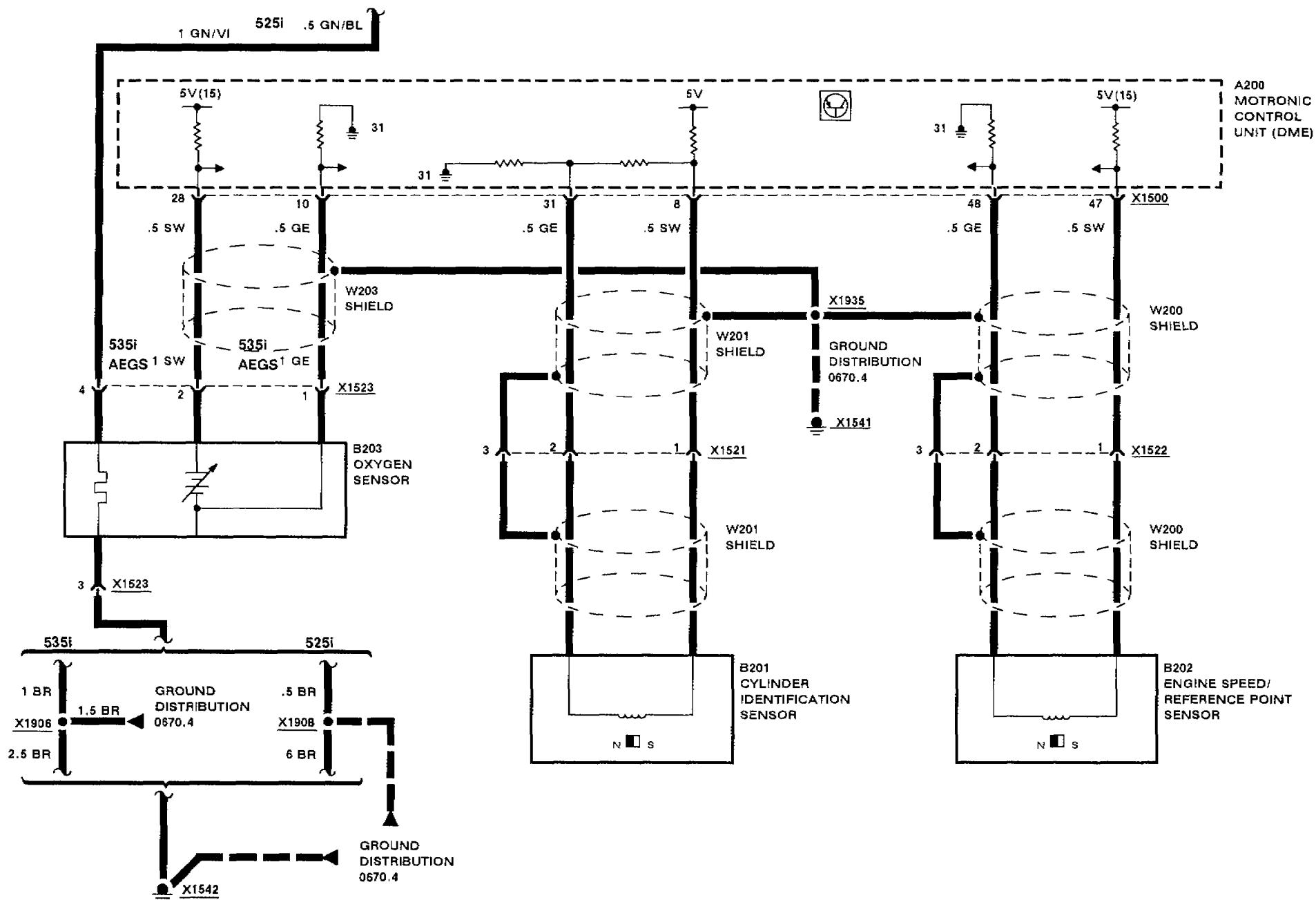
1210.2-06

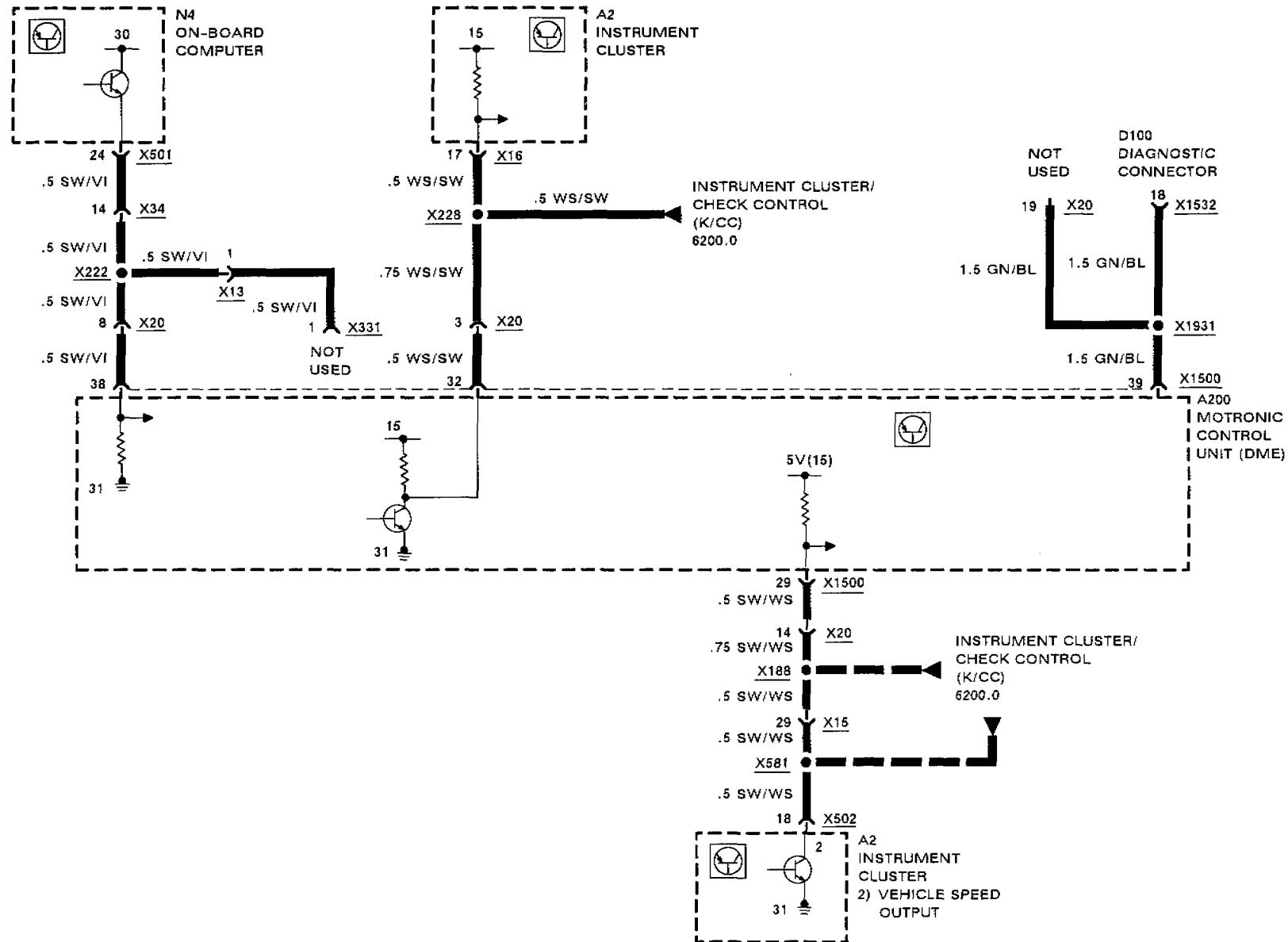
1989

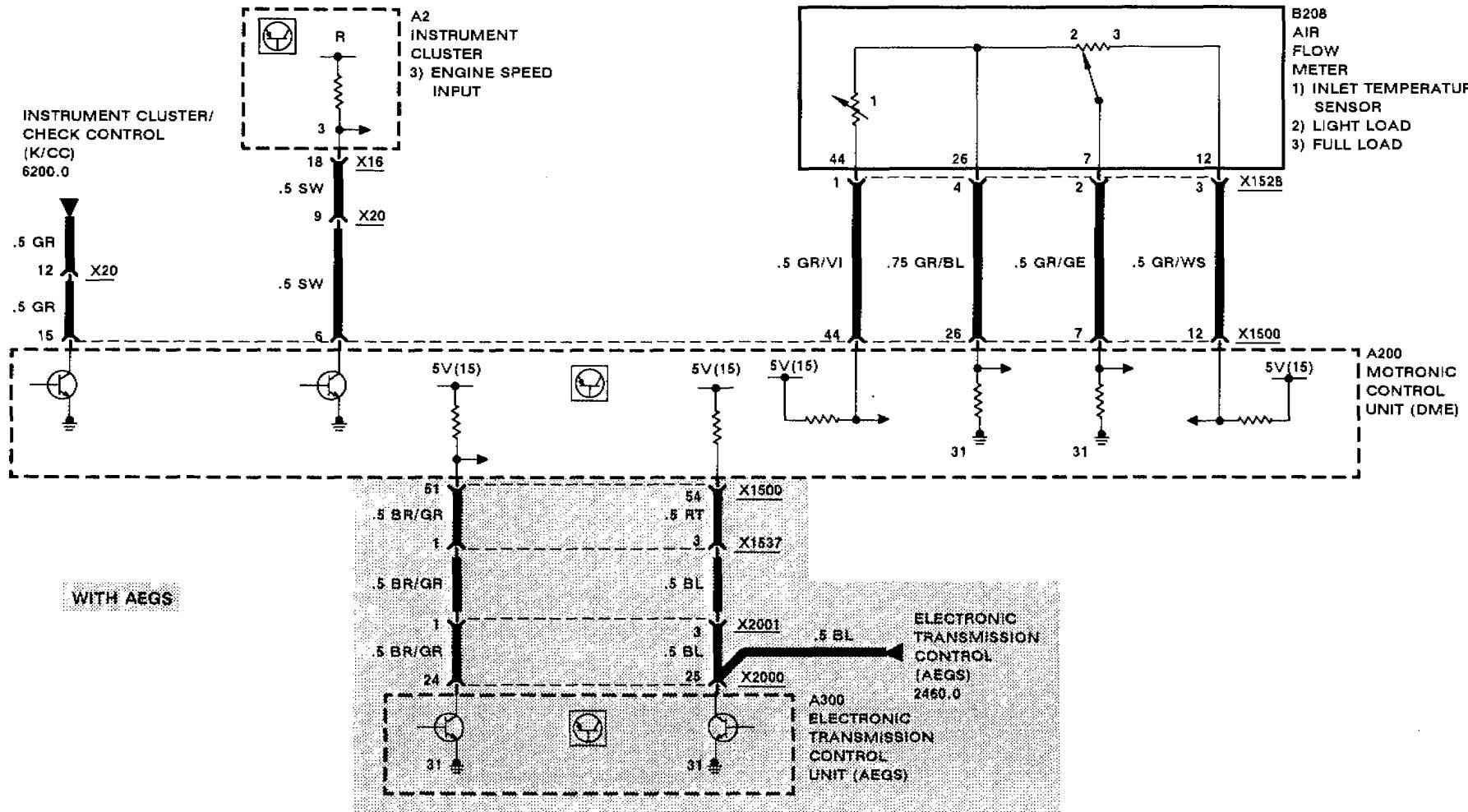


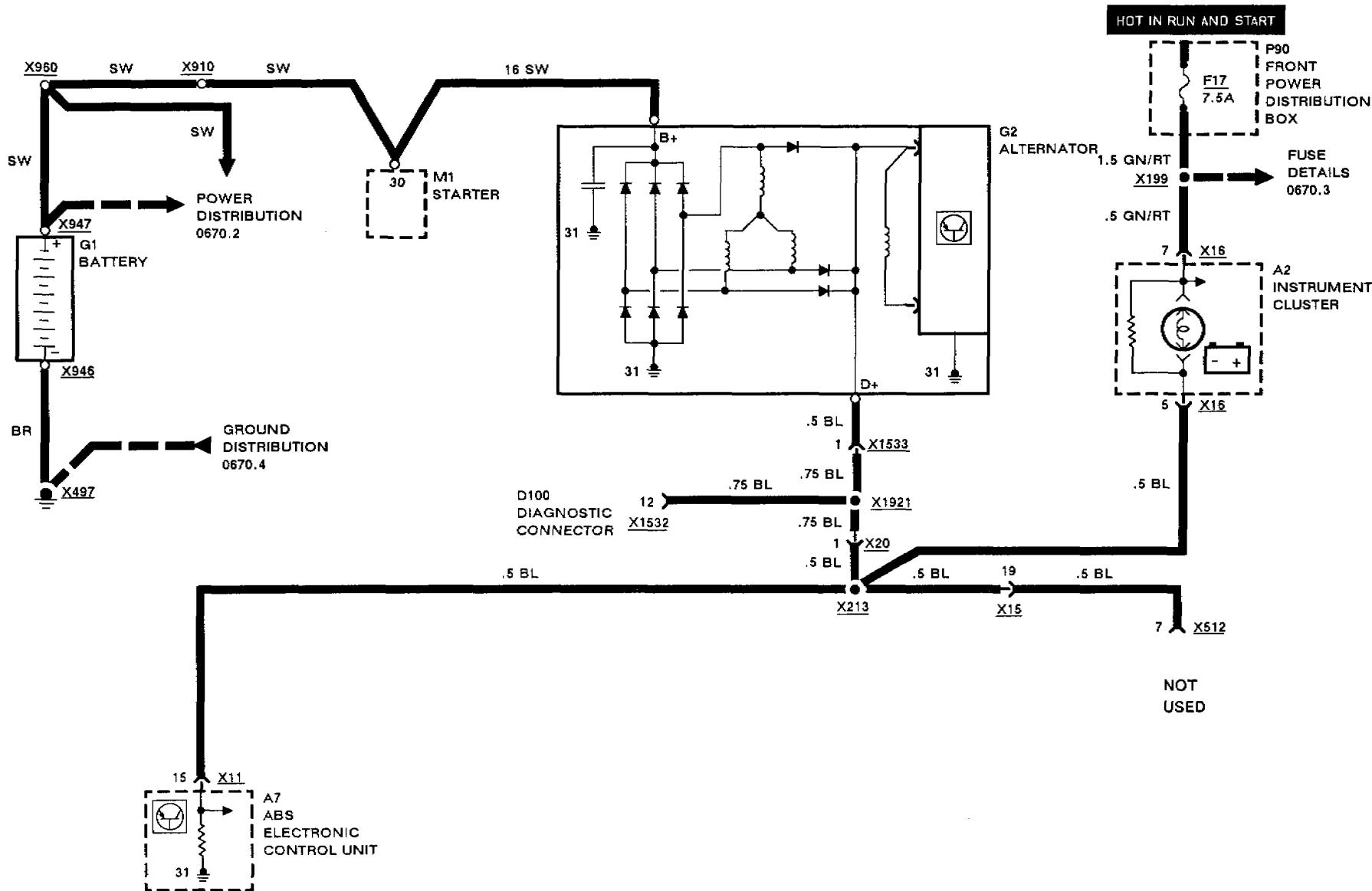
## INJECTION ELECTRONICS (DME 1.3)

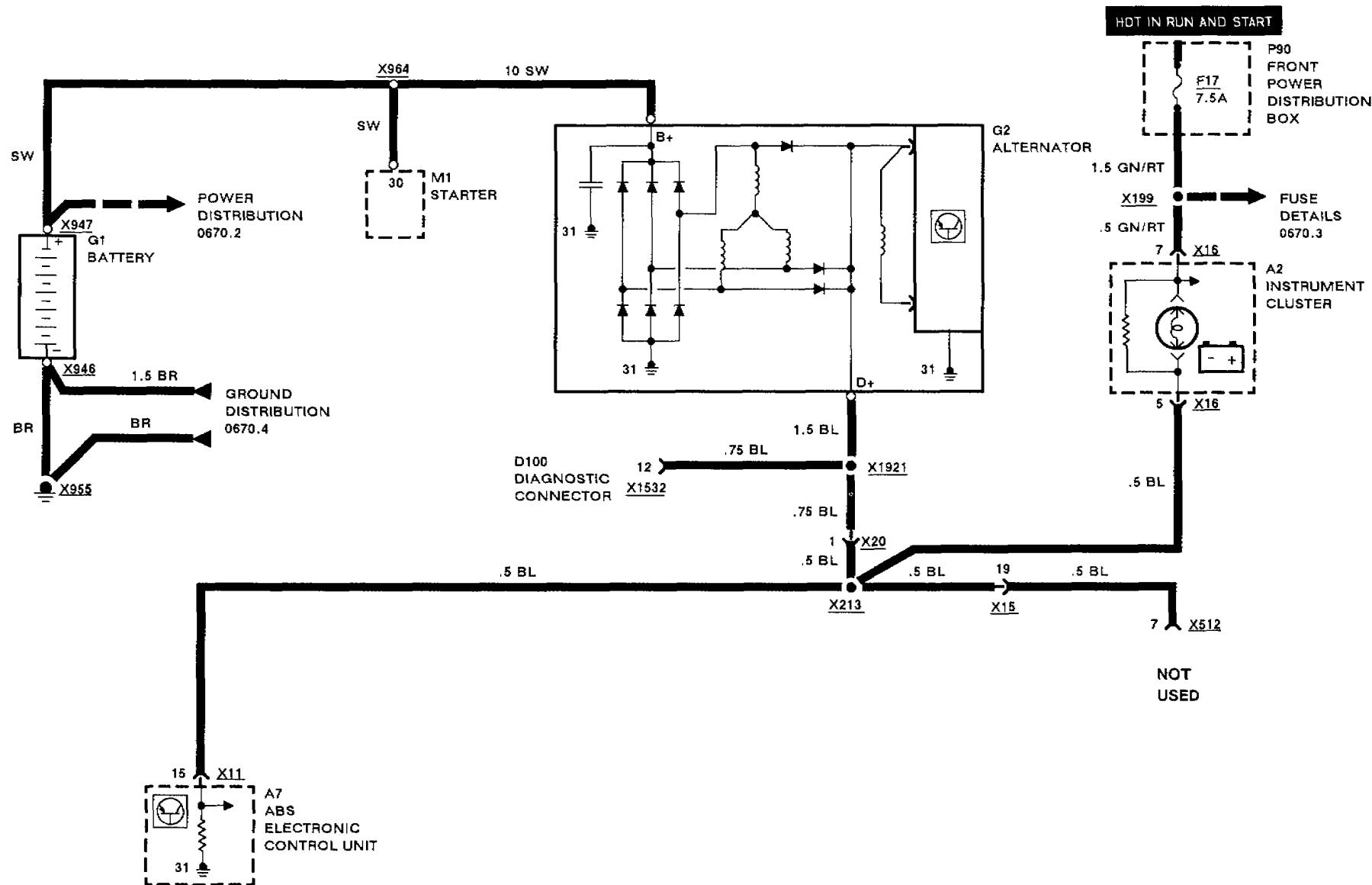


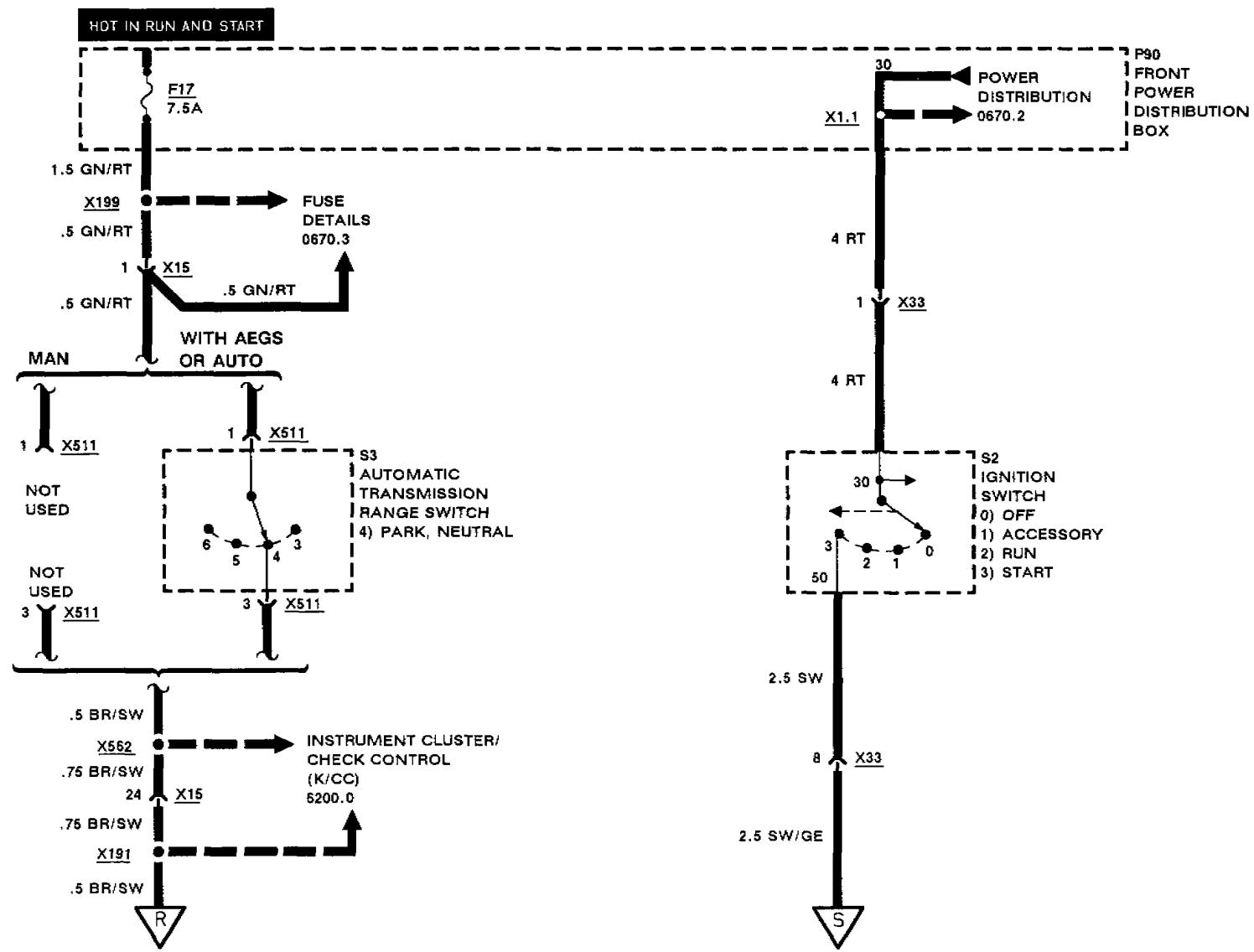






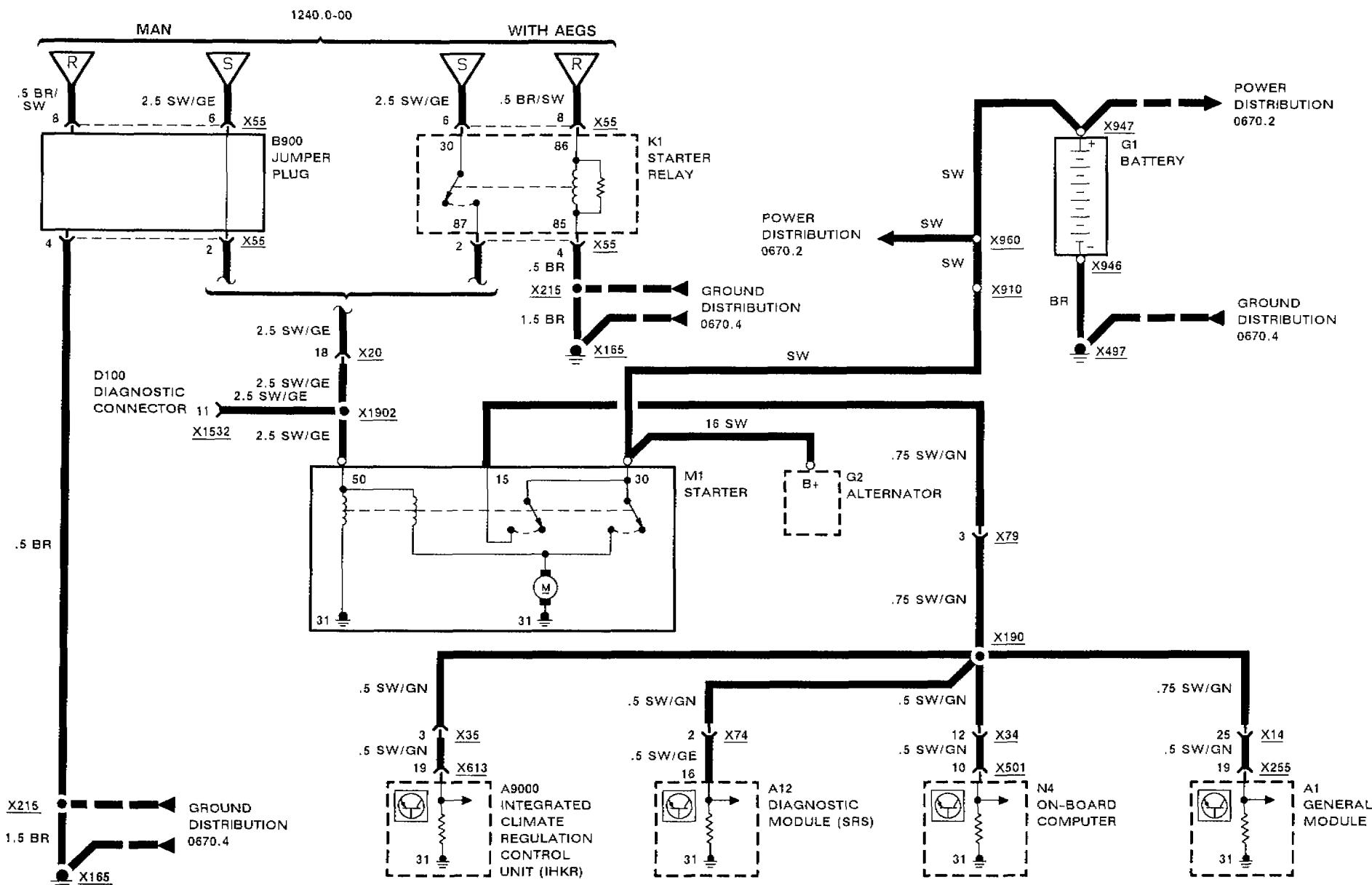


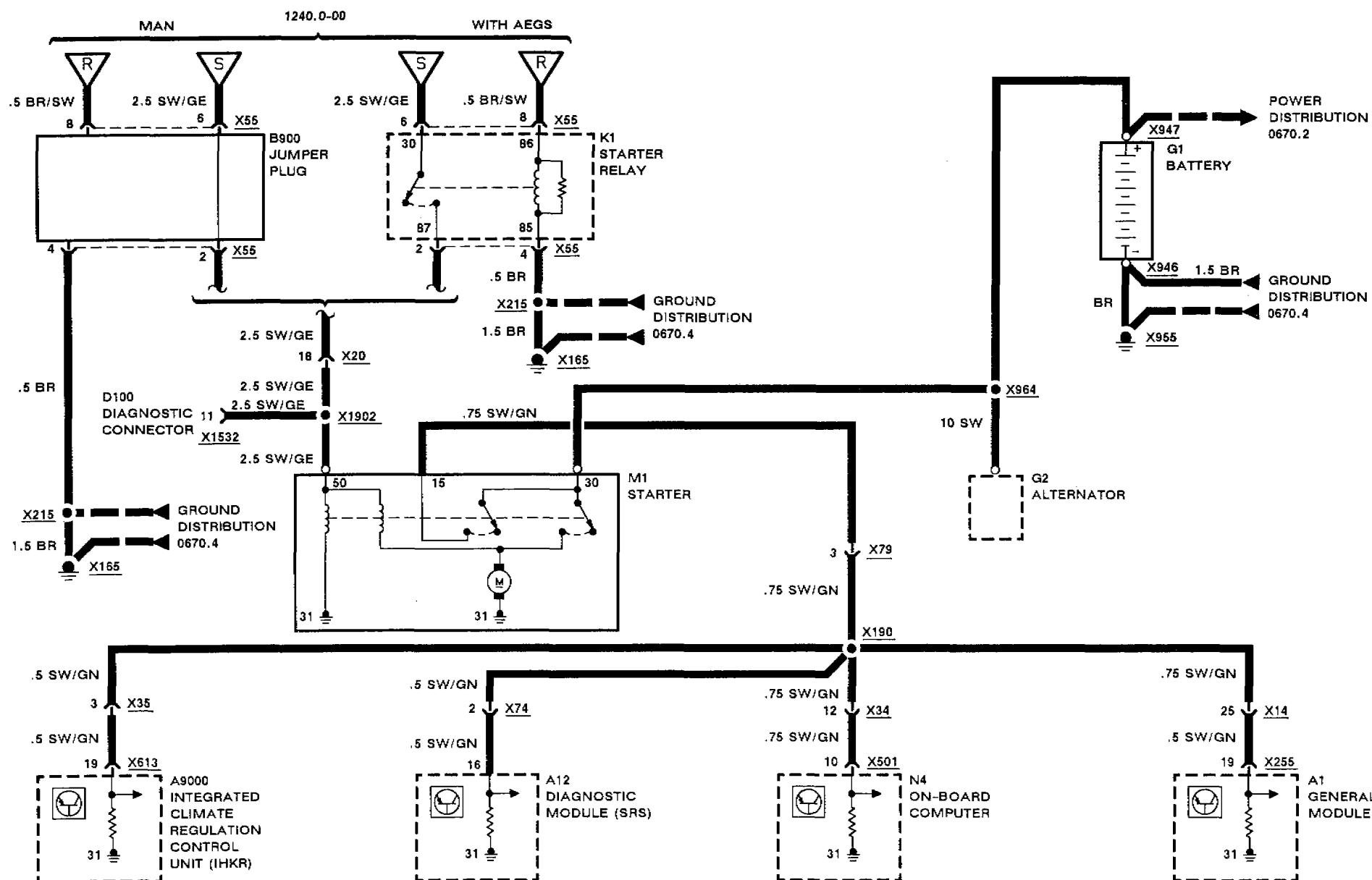




1240.0-01 535i

1240.0-02 525i





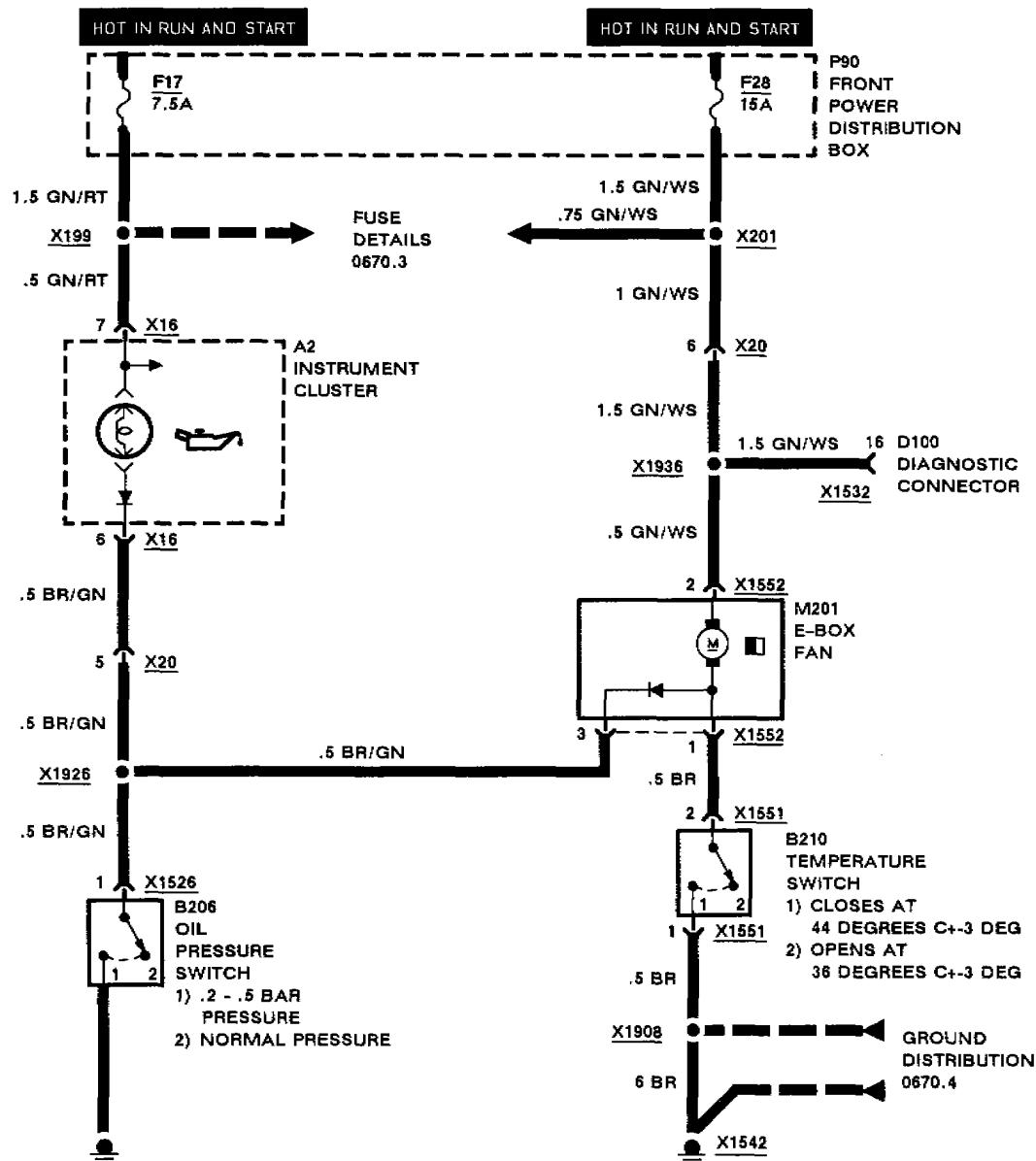


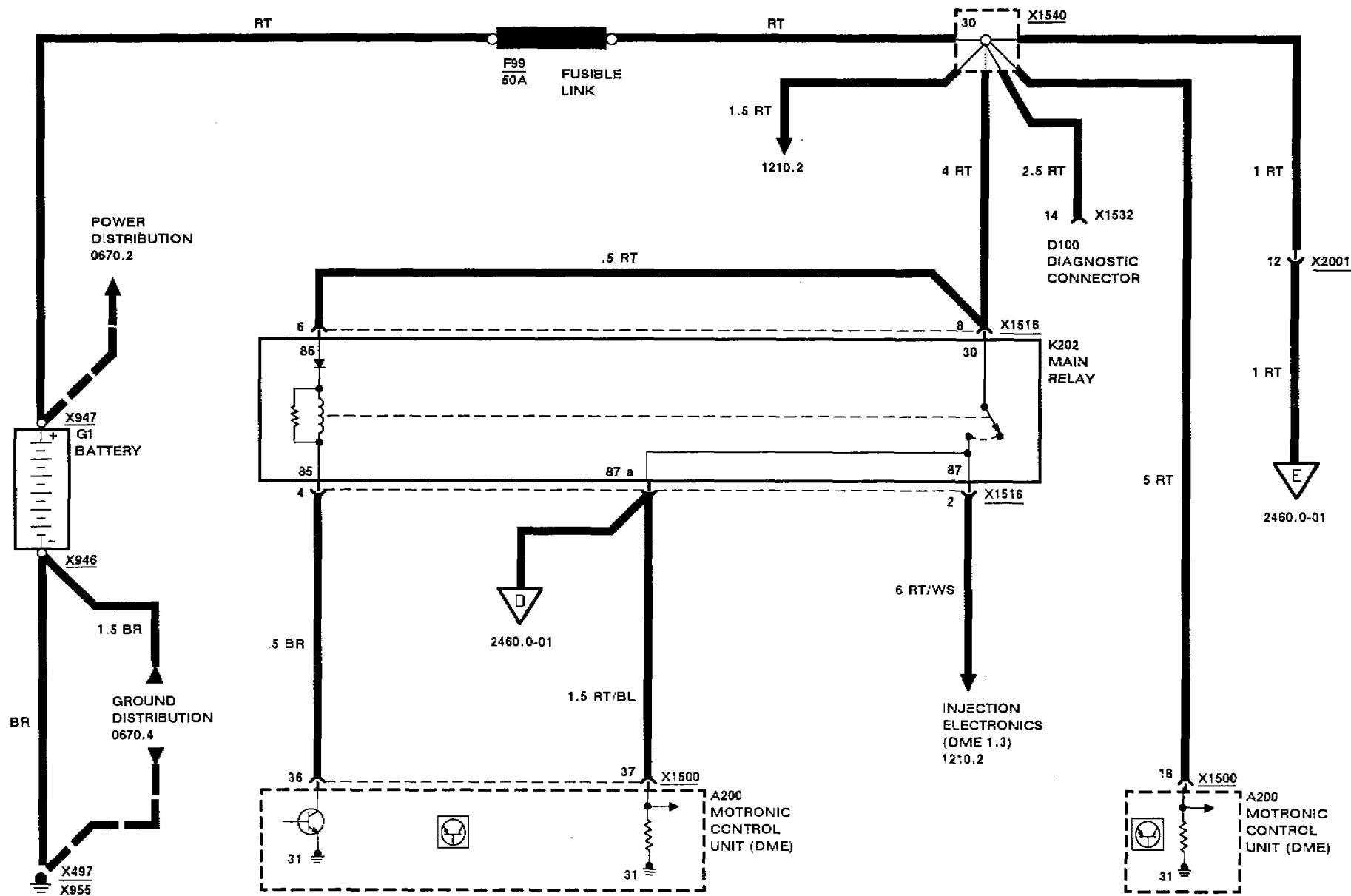
## E - BOX FAN

2/89

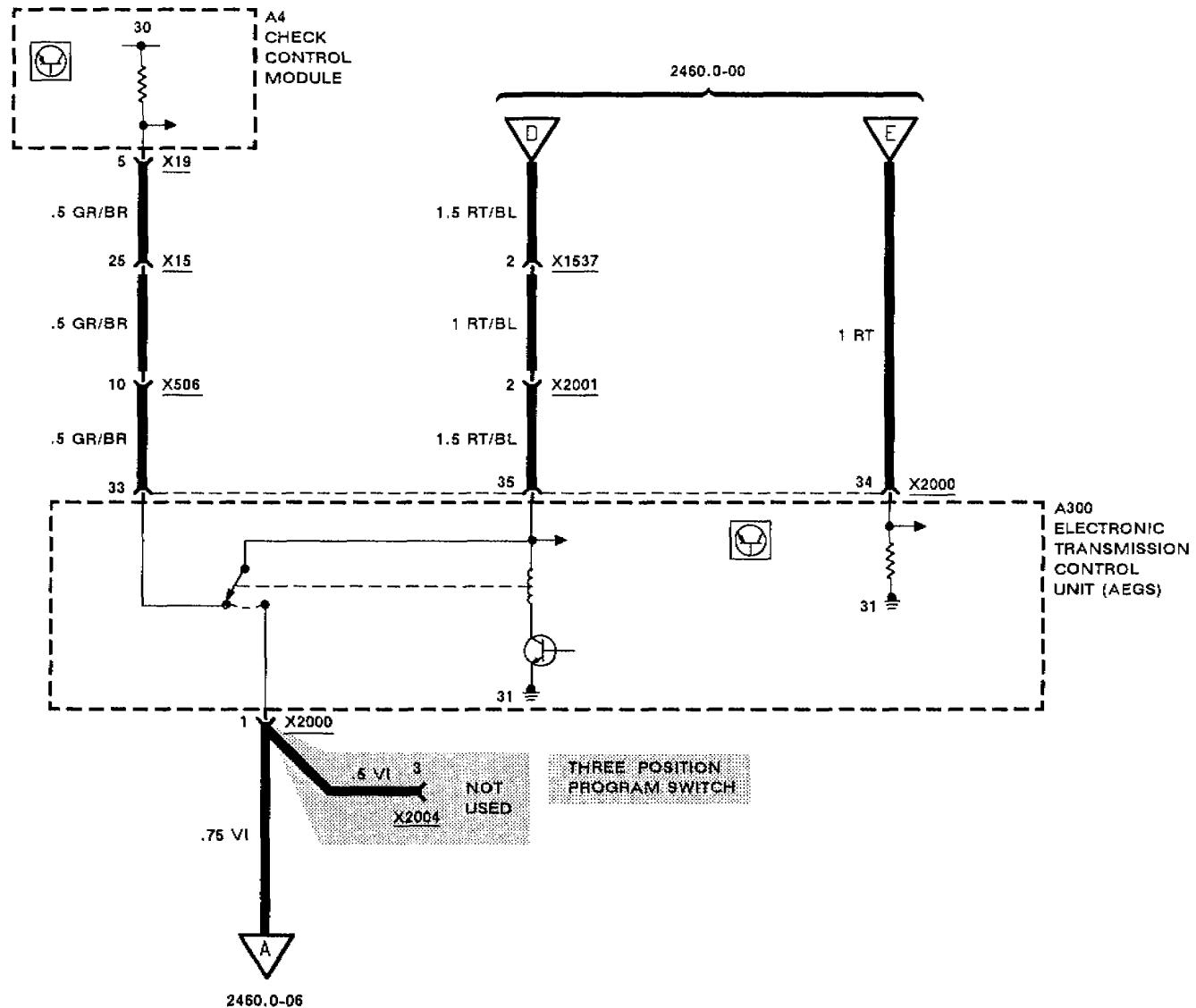
1290.0-00

1989





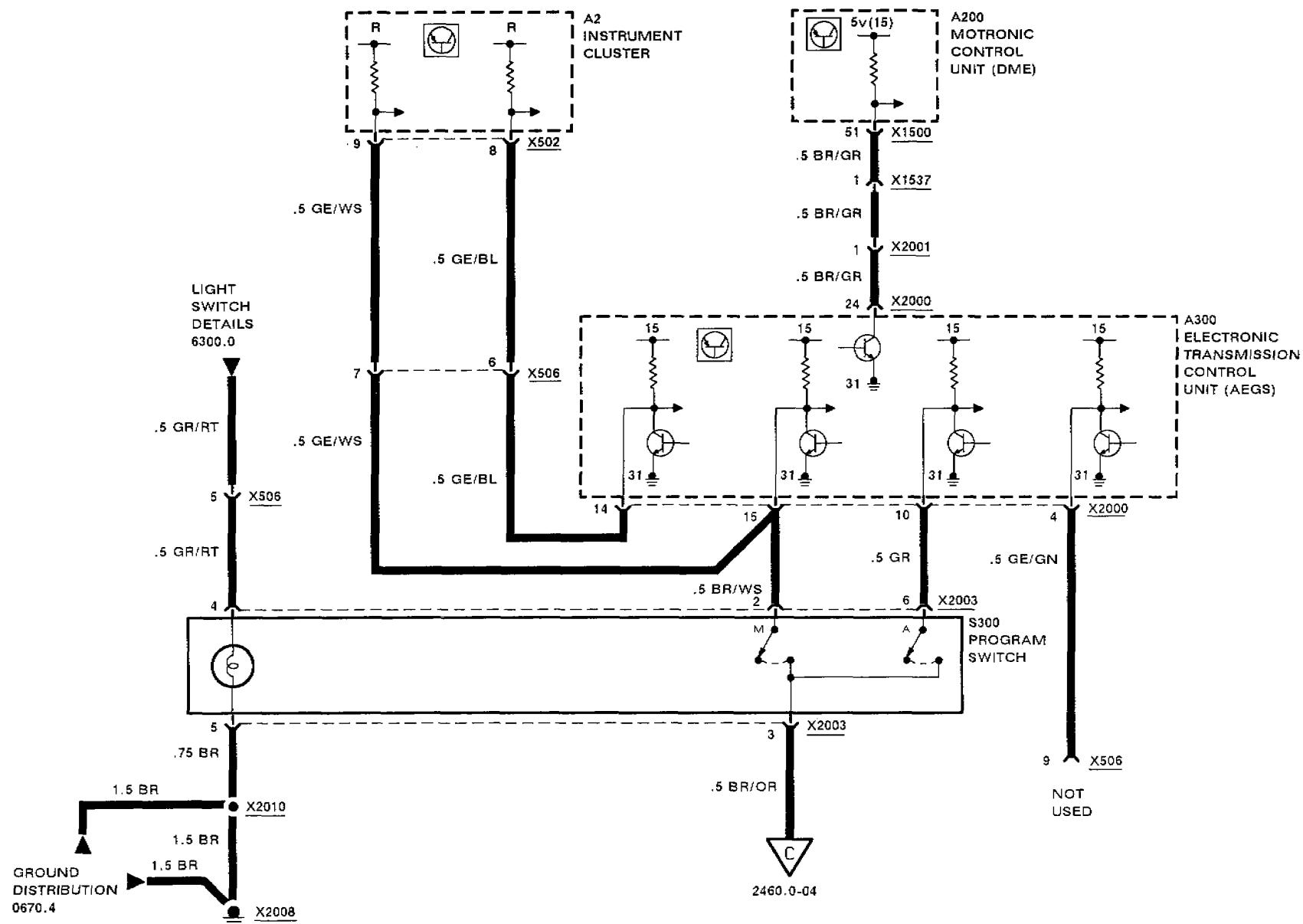
## ELECTRONIC TRANSMISSION CONTROL (AEGS)





## ELECTRONIC TRANSMISSION CONTROL (AEGS)

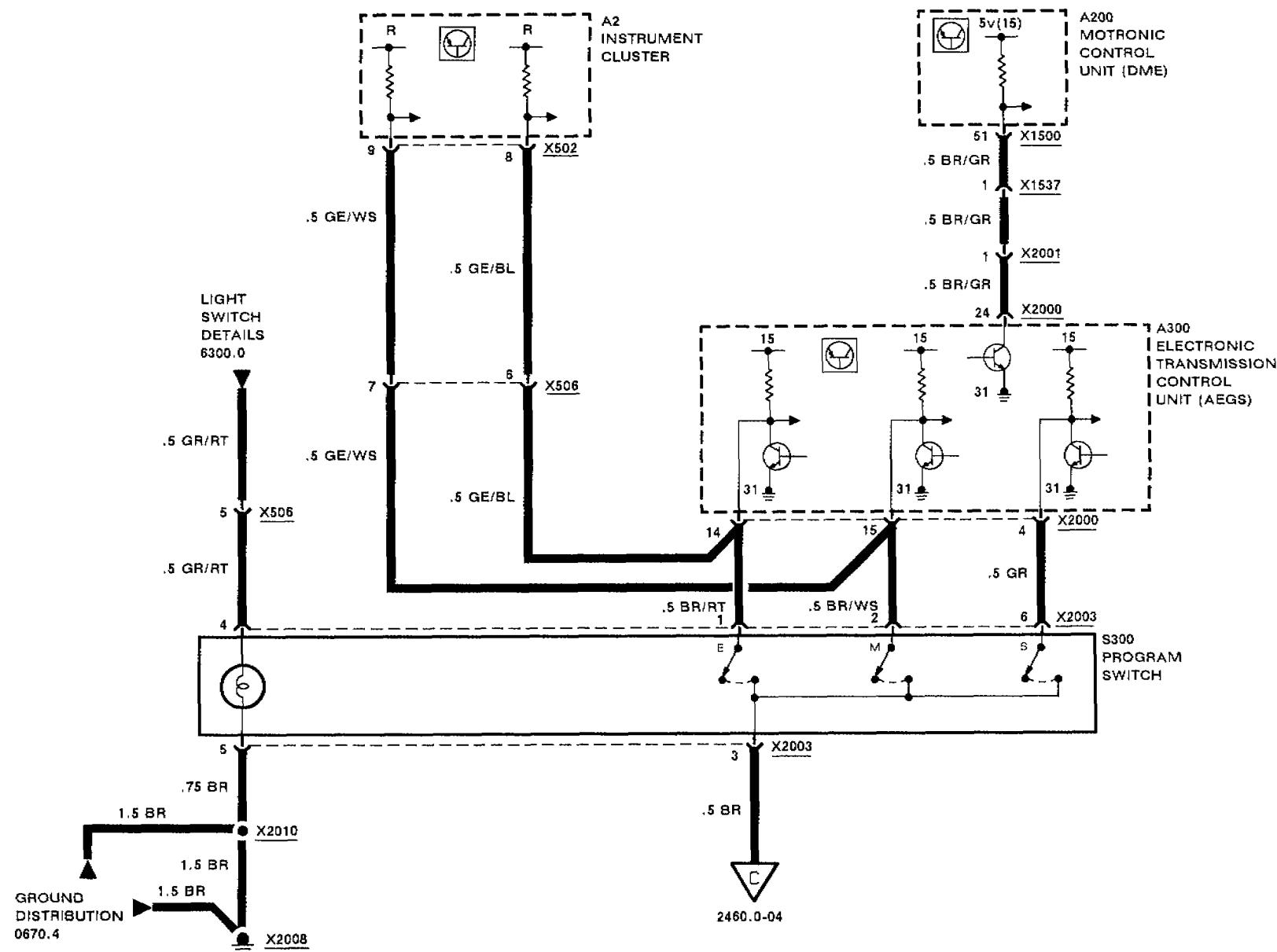
### TWO POSITION PROGRAM SWITCH





## ELECTRONIC TRANSMISSION CONTROL (AEGS)

### THREE POSITION PROGRAM SWITCH



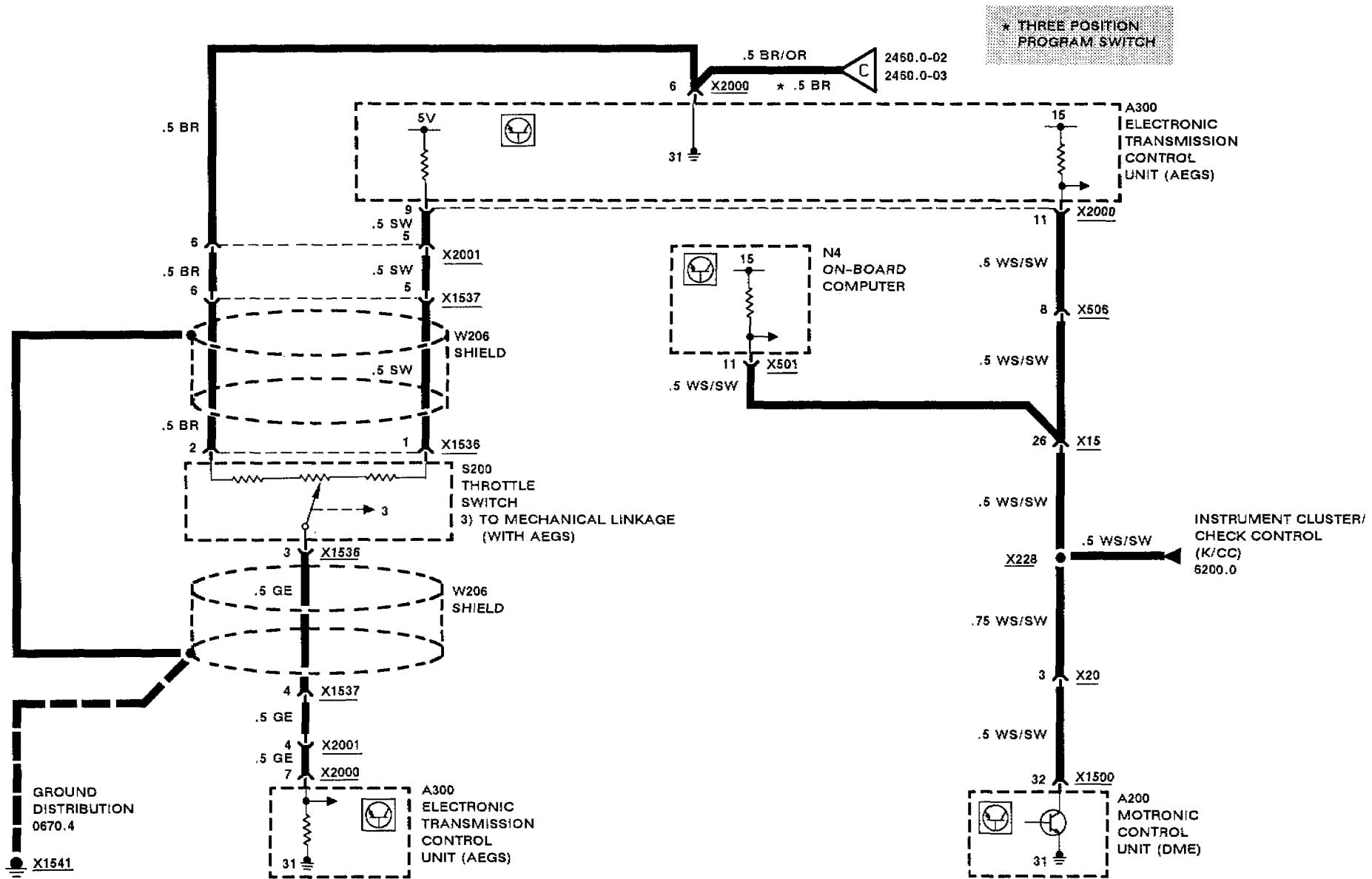


## ELECTRONIC TRANSMISSION CONTROL (AEGS)

6/88

2460.0-04

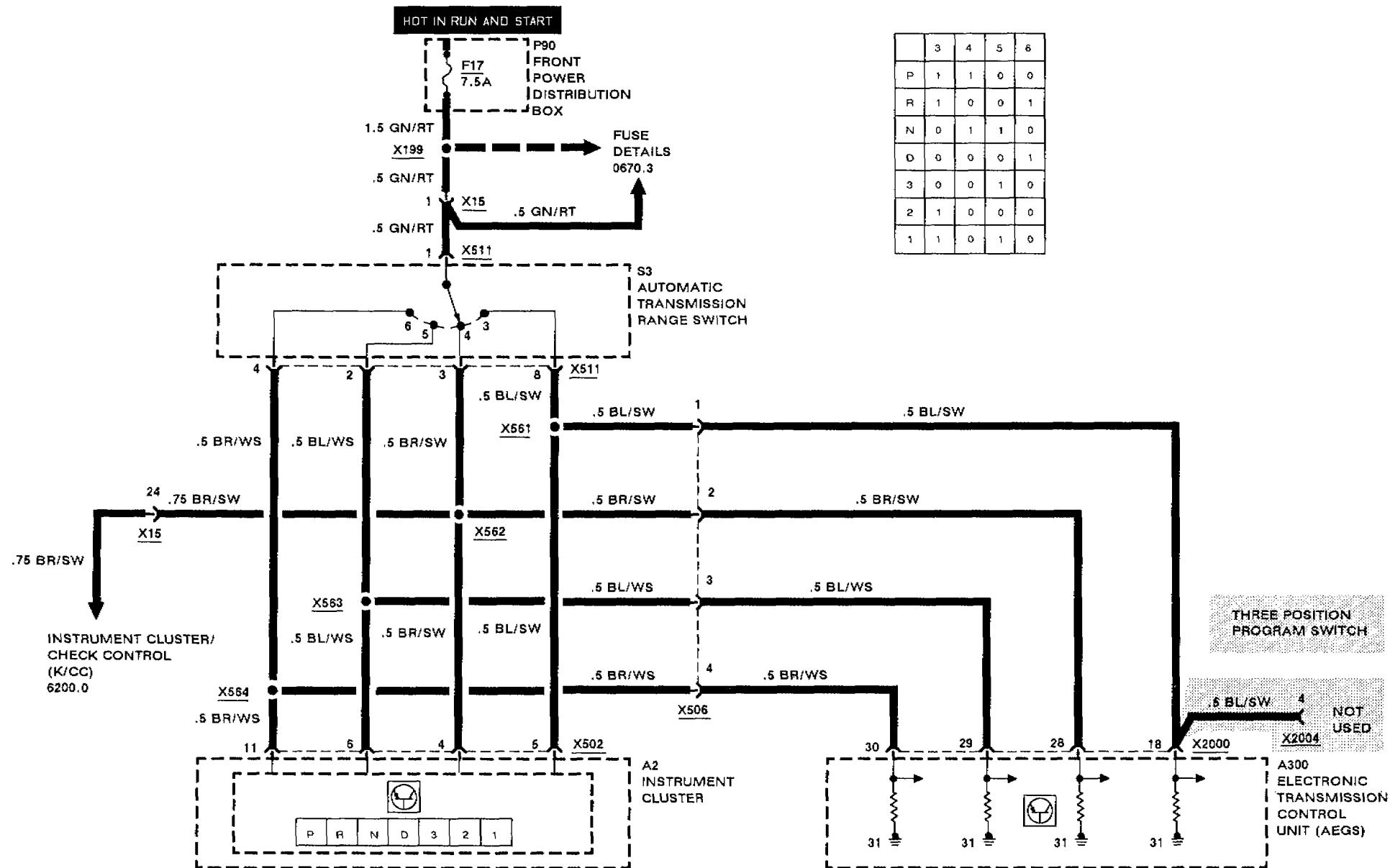
1989





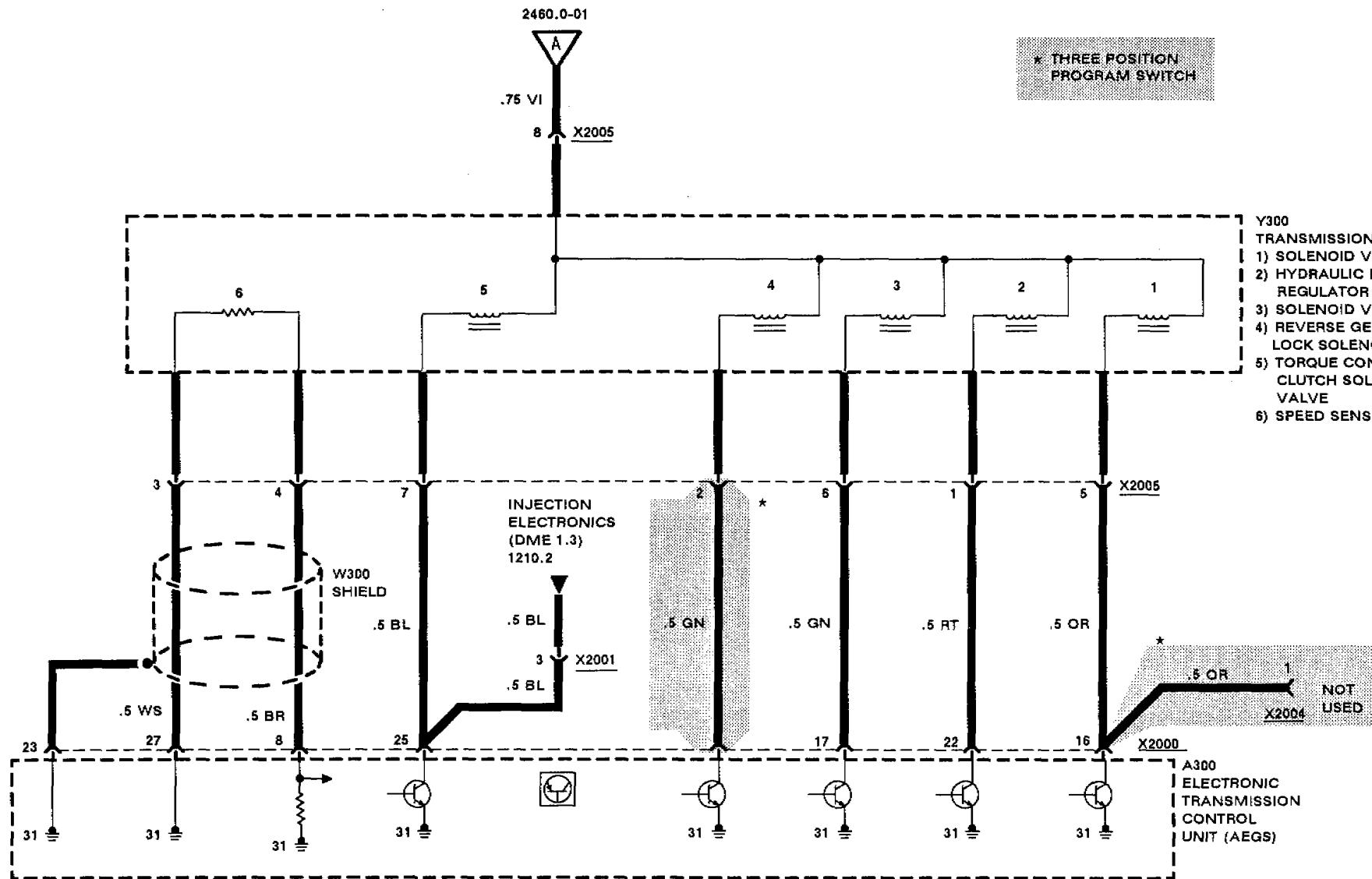
## ELECTRONIC TRANSMISSION CONTROL (AEGS)

6

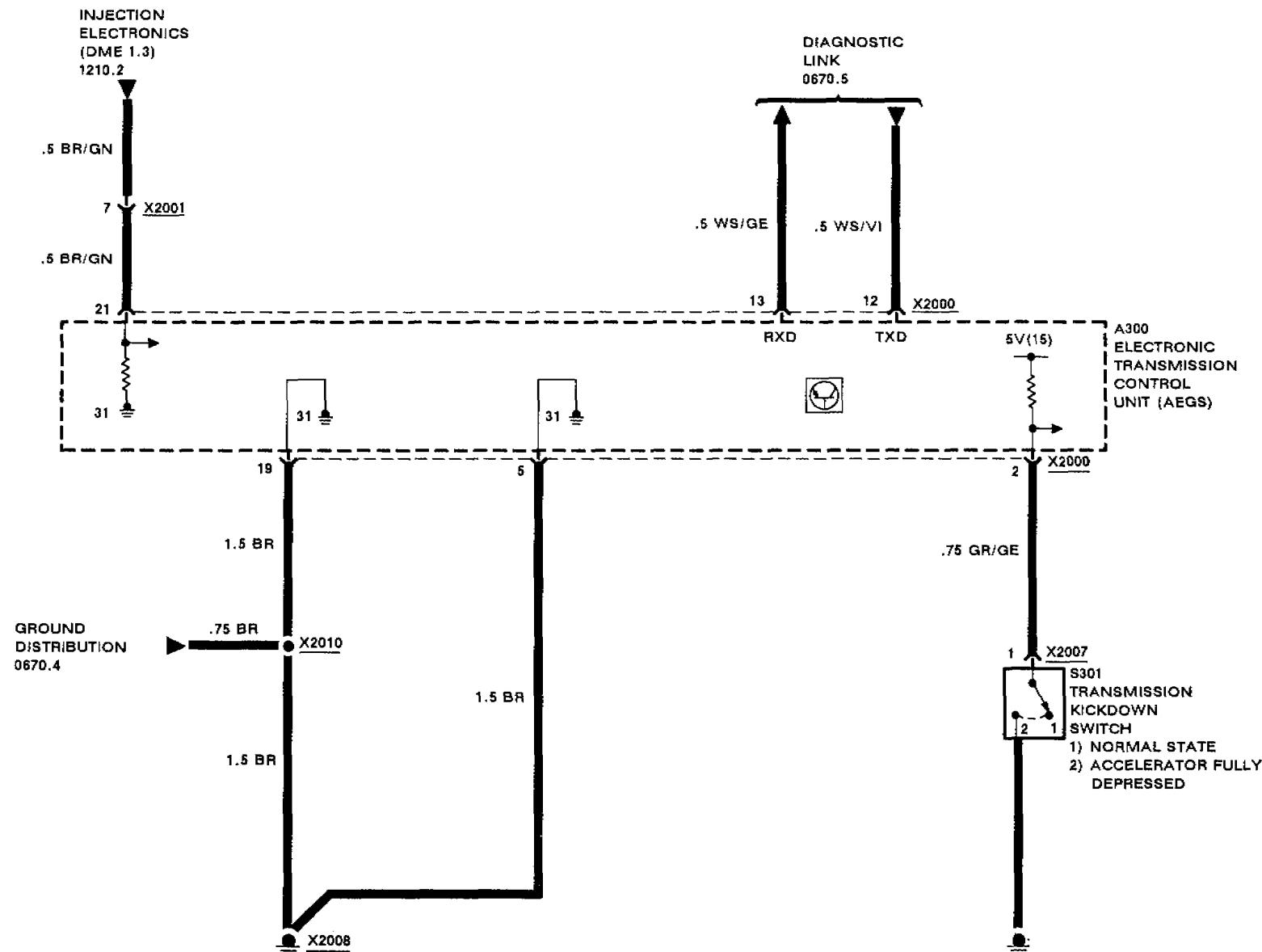


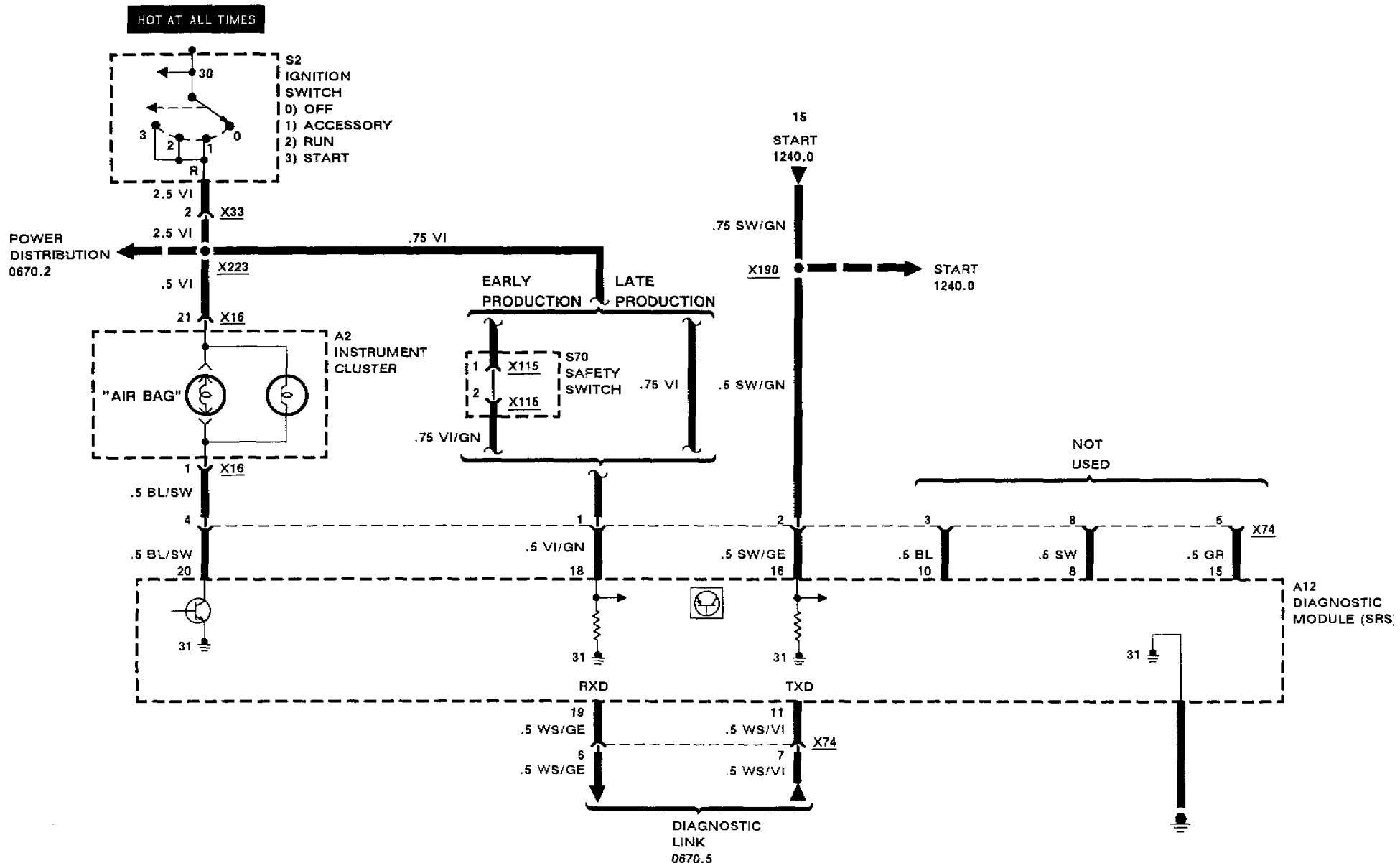
2460.0-05

1  
686

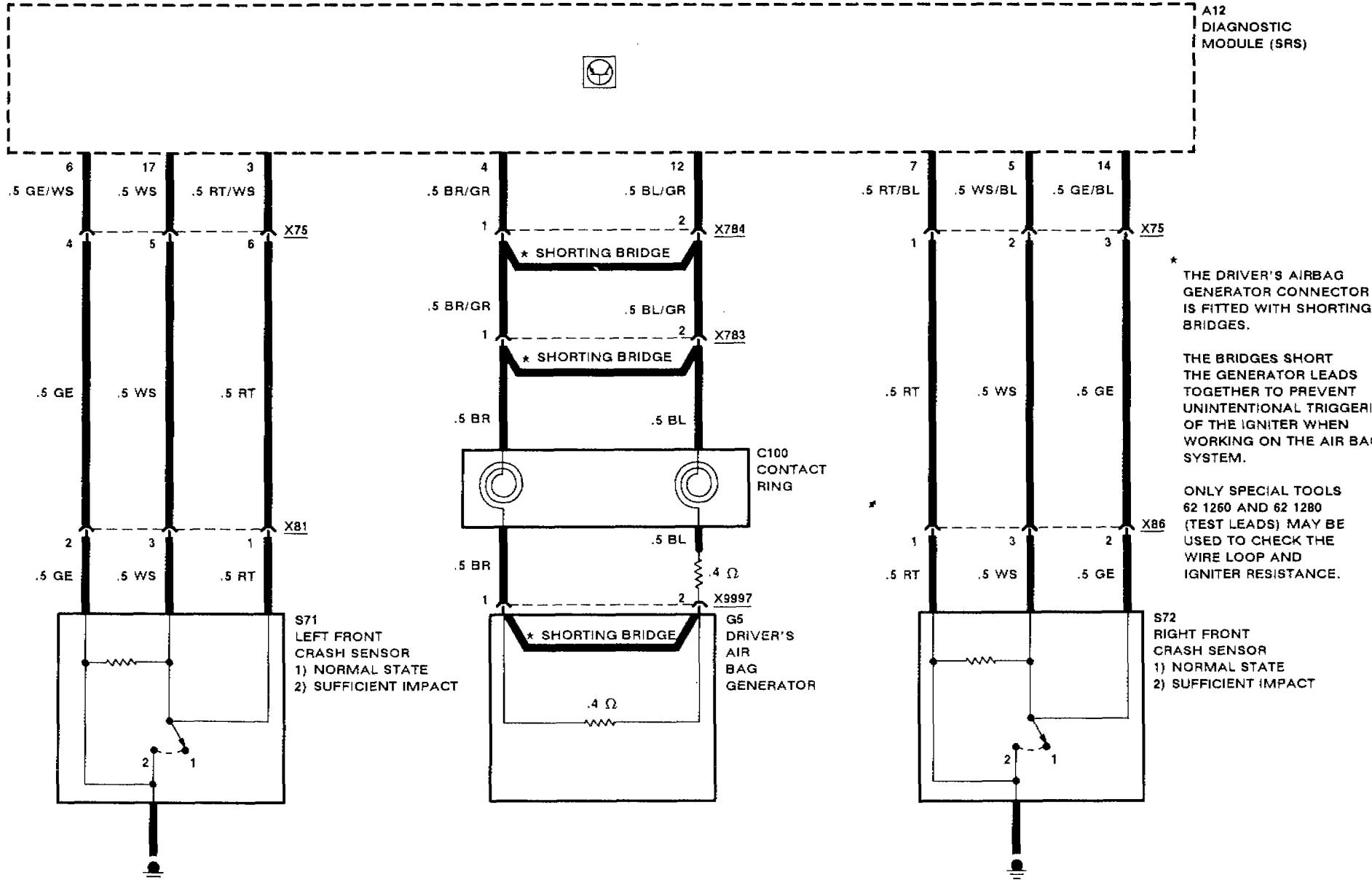


## ELECTRONIC TRANSMISSION CONTROL (AEGS)





# SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



A12  
DIAGNOSTIC  
MODULE (SRS)

\* THE DRIVER'S AIRBAG GENERATOR CONNECTOR IS FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

ONLY SPECIAL TOOLS 62 1260 AND 62 1280 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE.

S72  
RIGHT FRONT  
CRASH SENSOR  
1) NORMAL STATE  
2) SUFFICIENT IMPACT

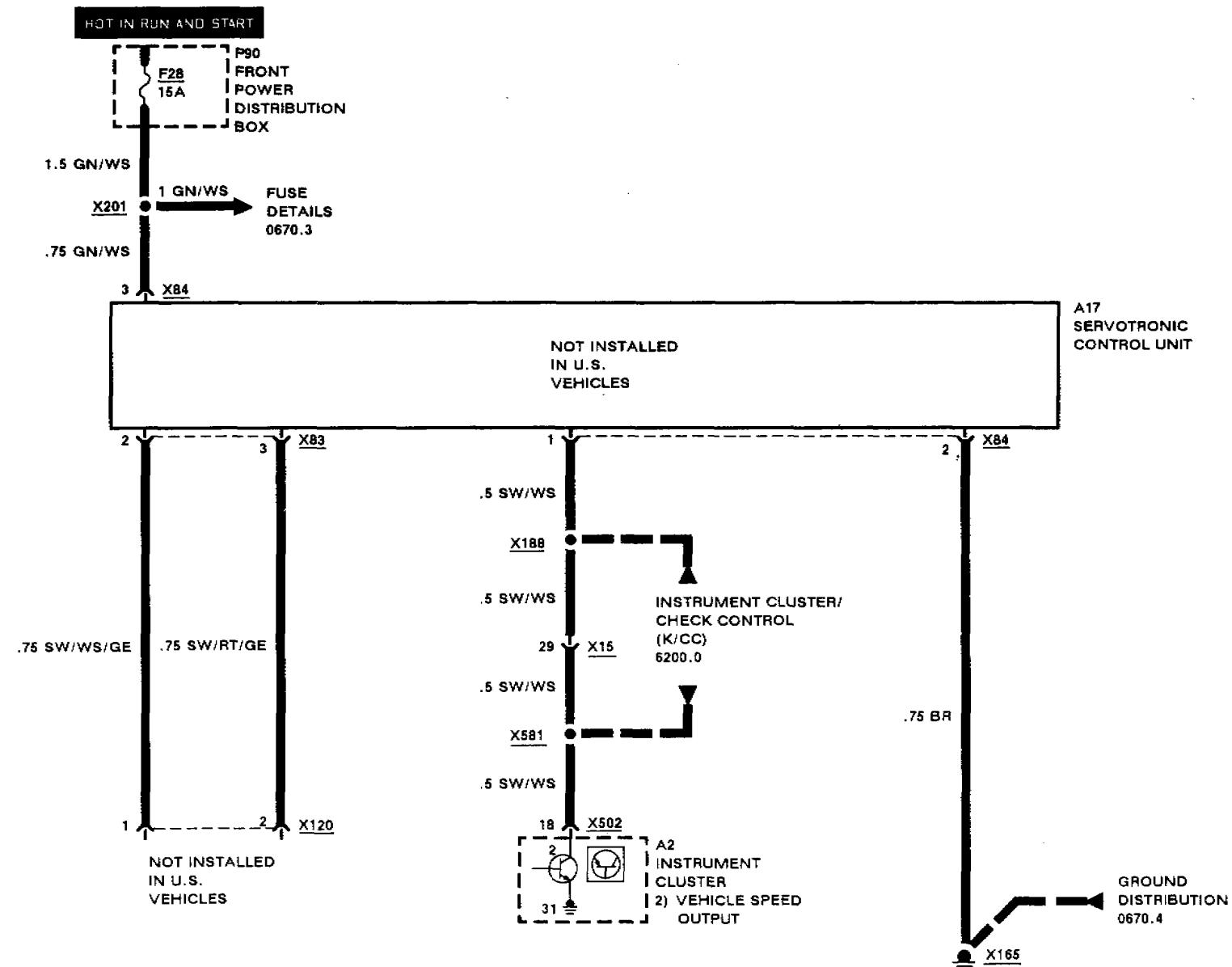


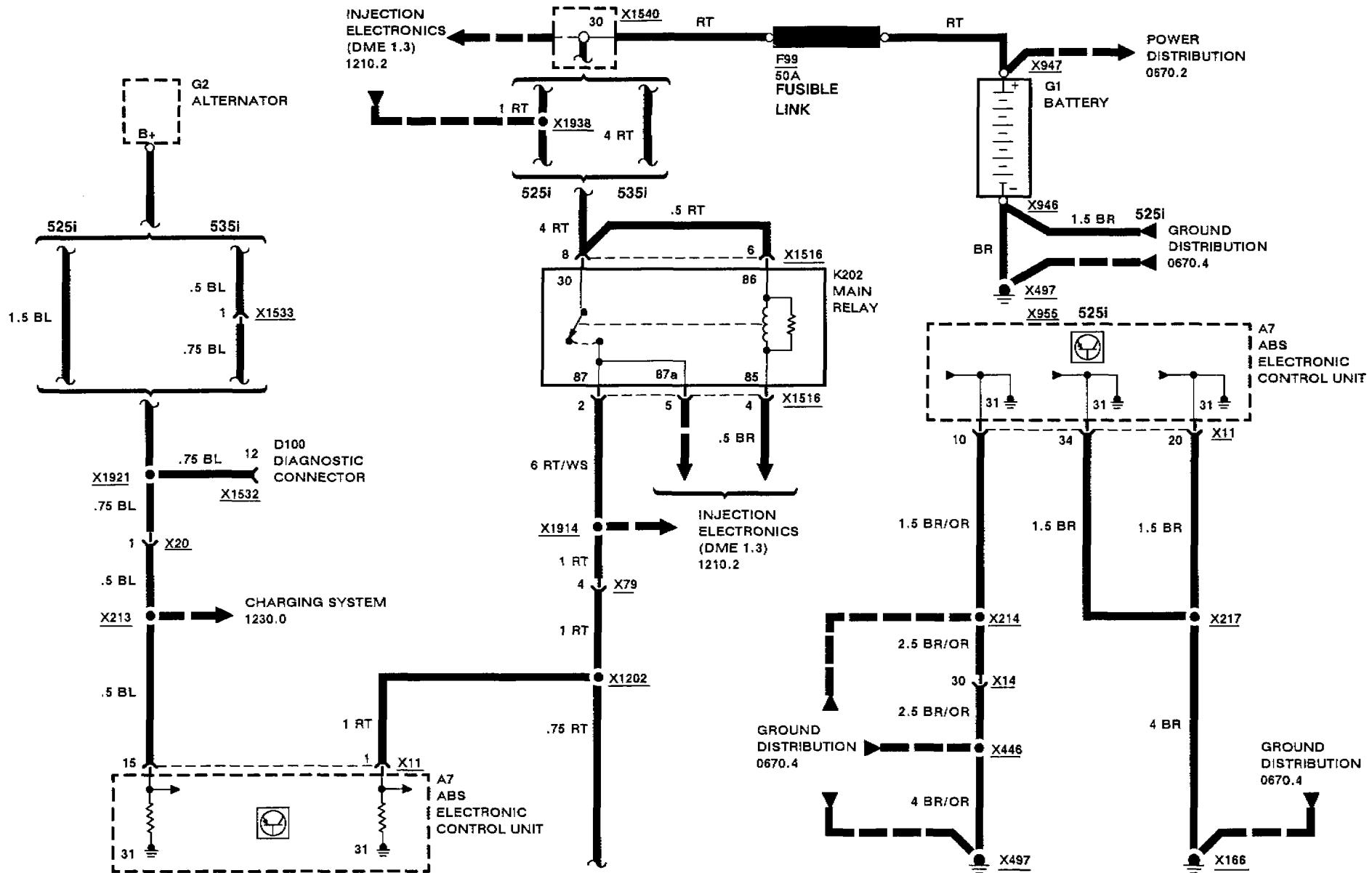
## POWER ASSIST STEERING (SERVOTRONIC)

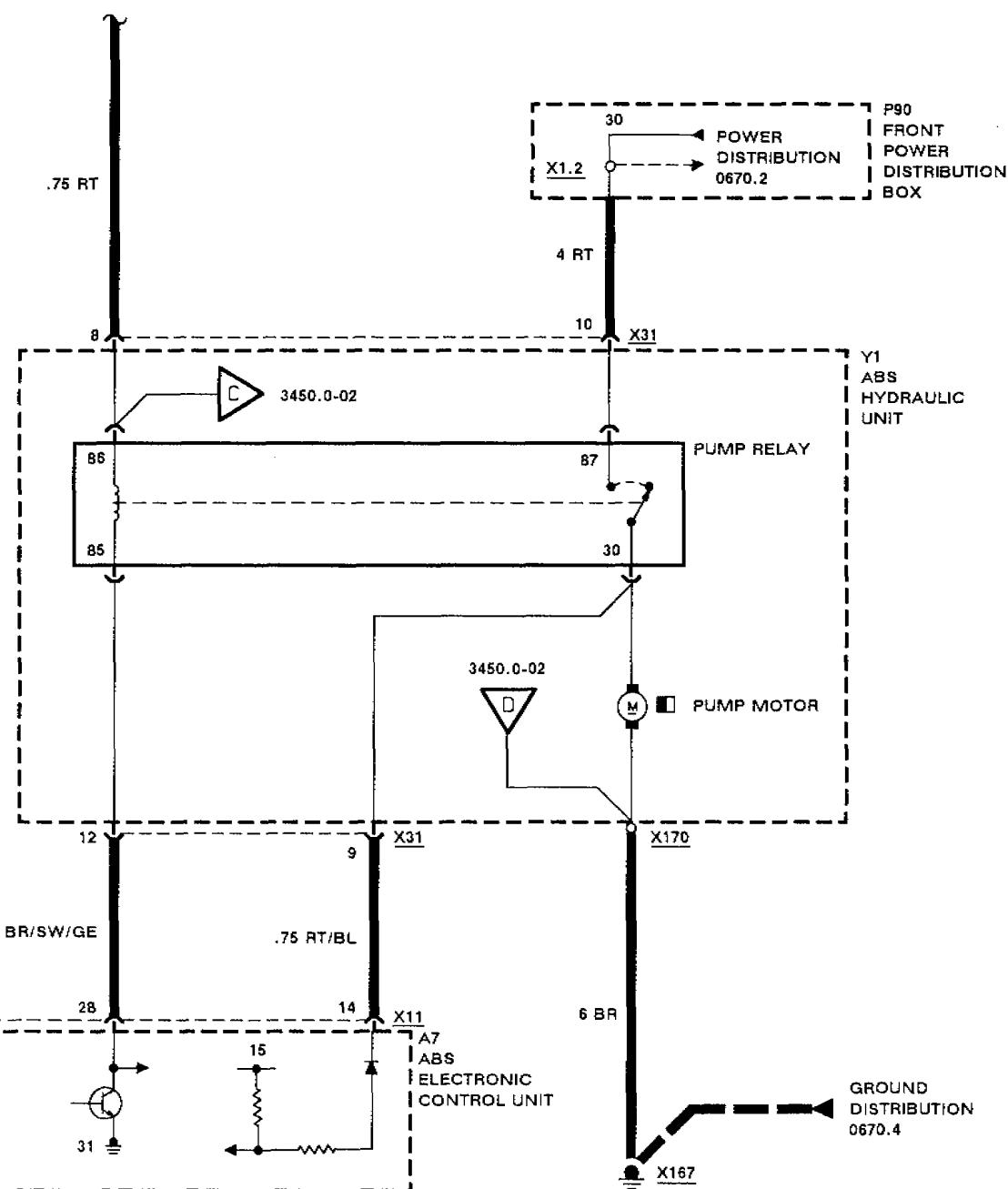
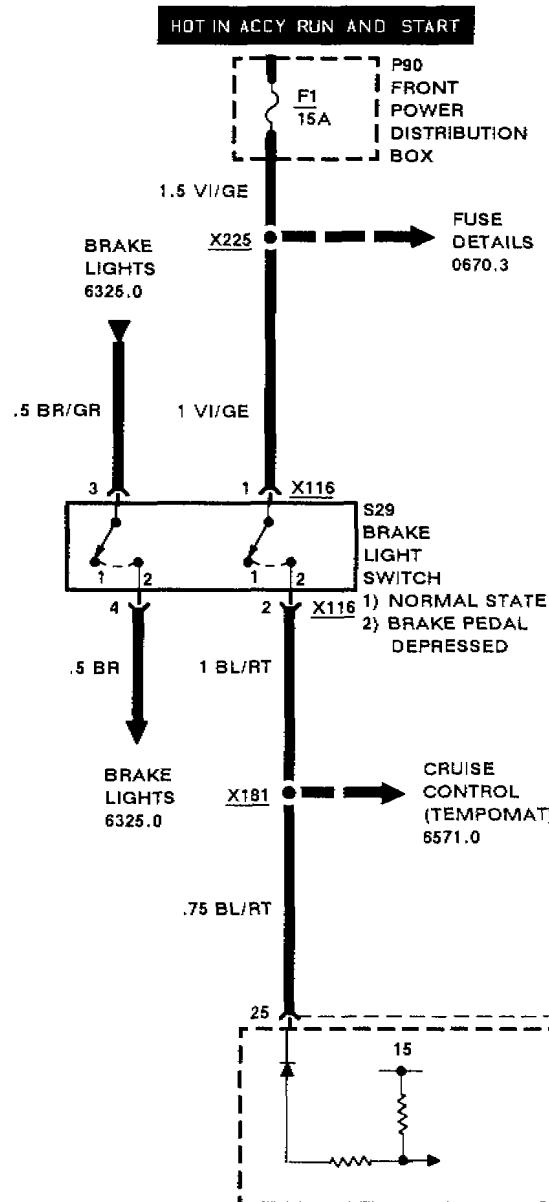
2/89

3240.0-00

1989



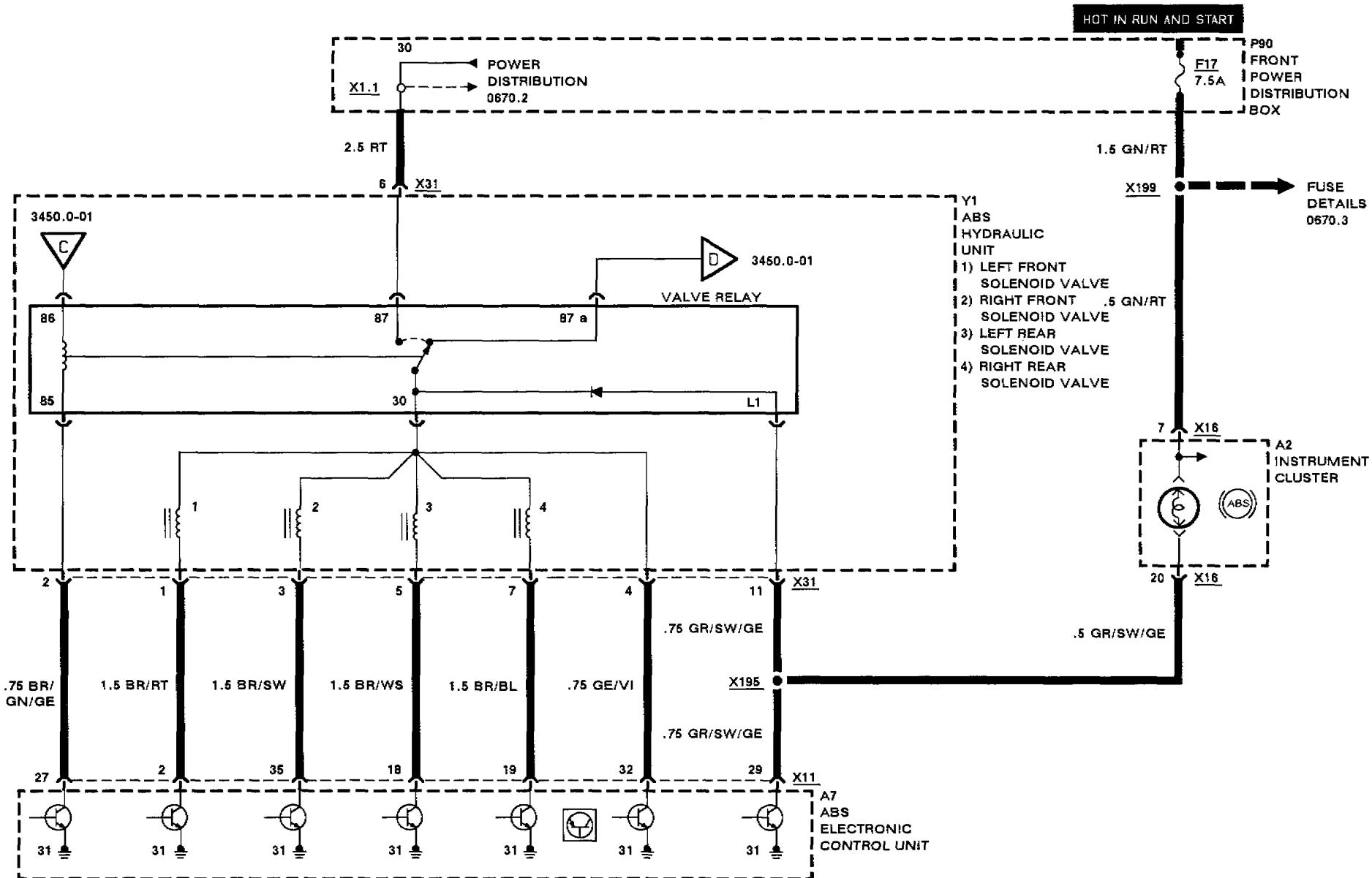






## ANTILOCK BRAKE SYSTEM (ABS)

2/89



3450.0-02

1989

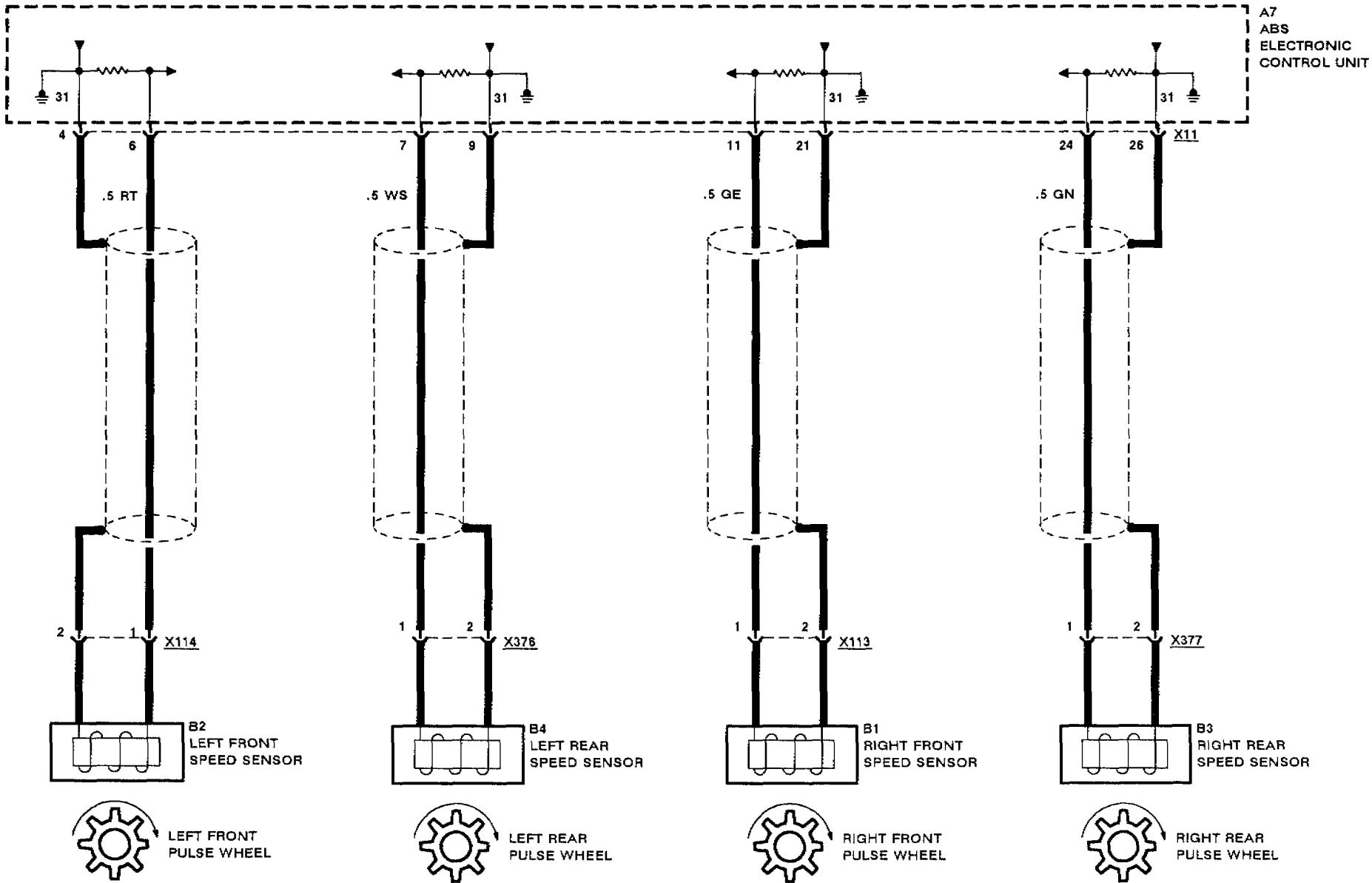


## ANTILOCK BRAKE SYSTEM (ABS)

2/89

3450.0-03

1989



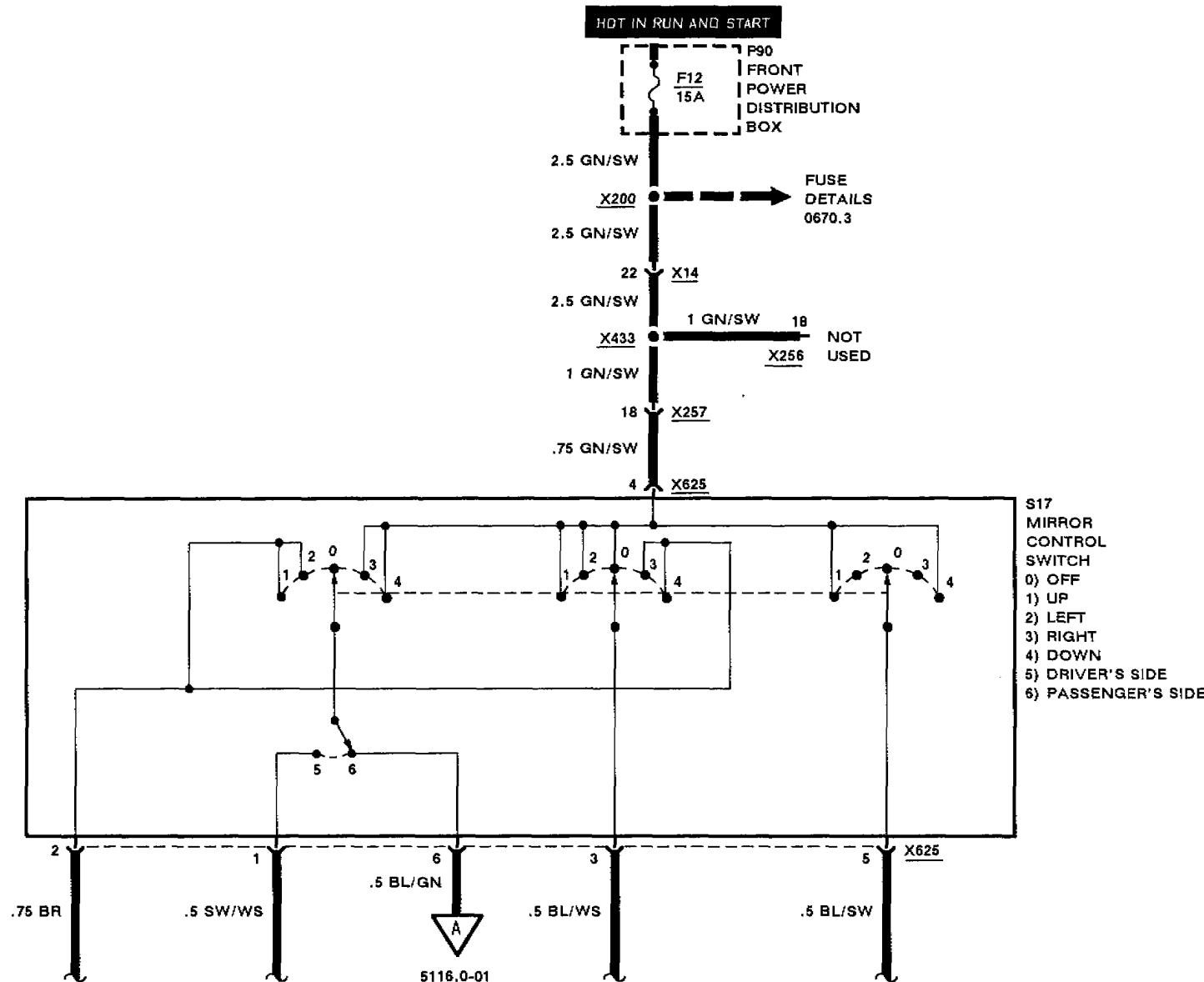


# POWER MIRRORS

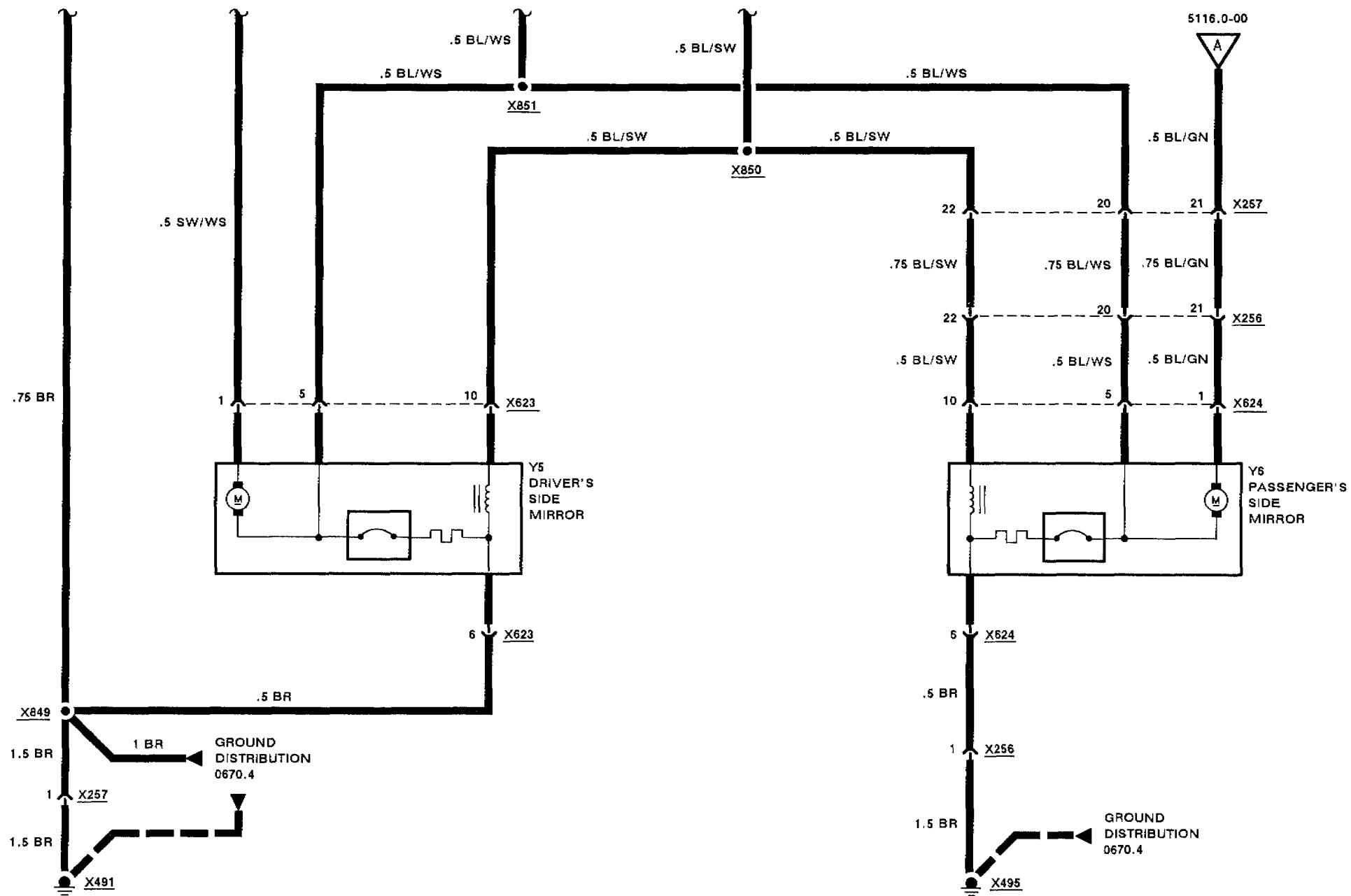
## EXTERIOR MIRRORS

2/89

5116.0-00



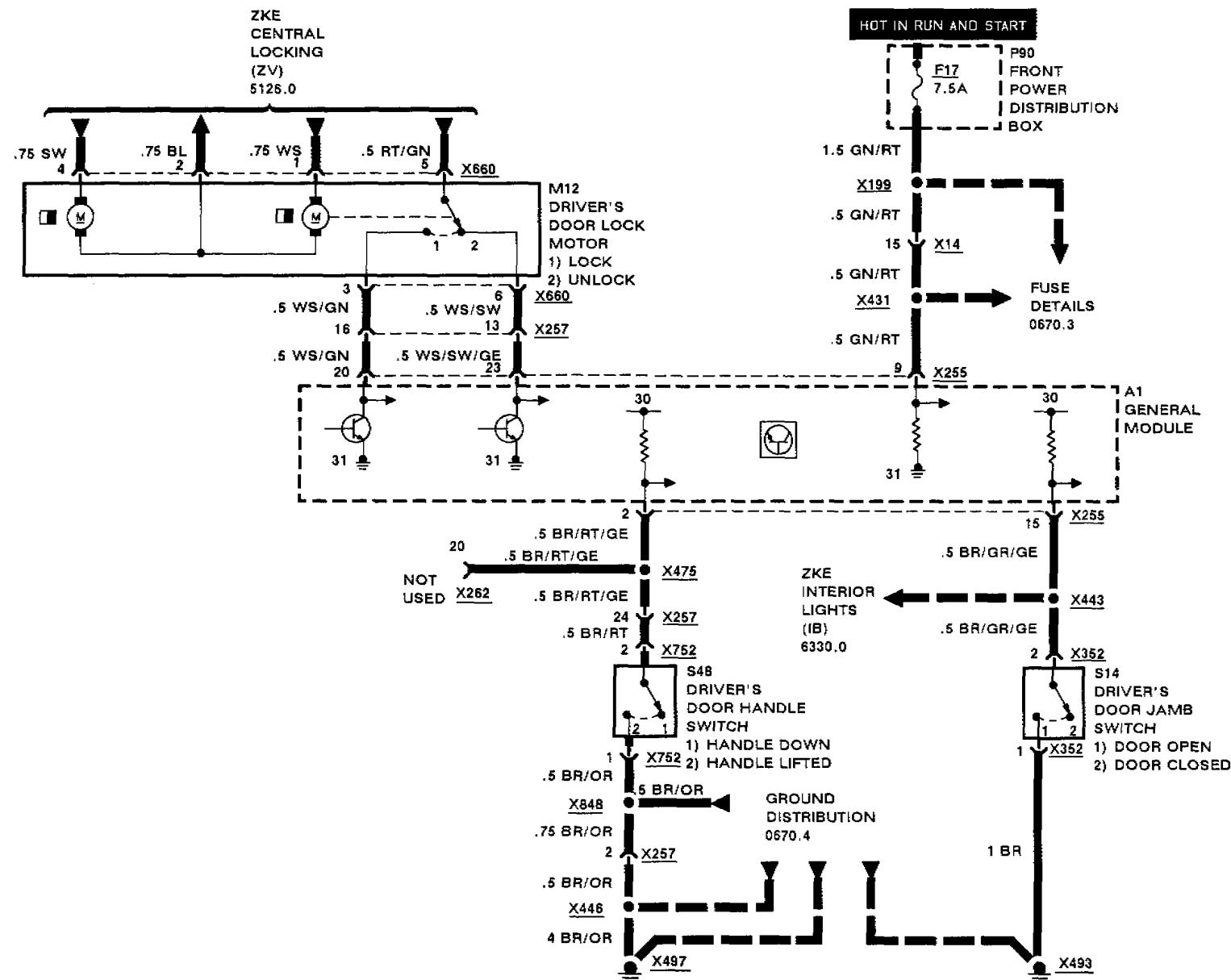
1989





# ZKE DOOR LOCK HEATING (TSH)

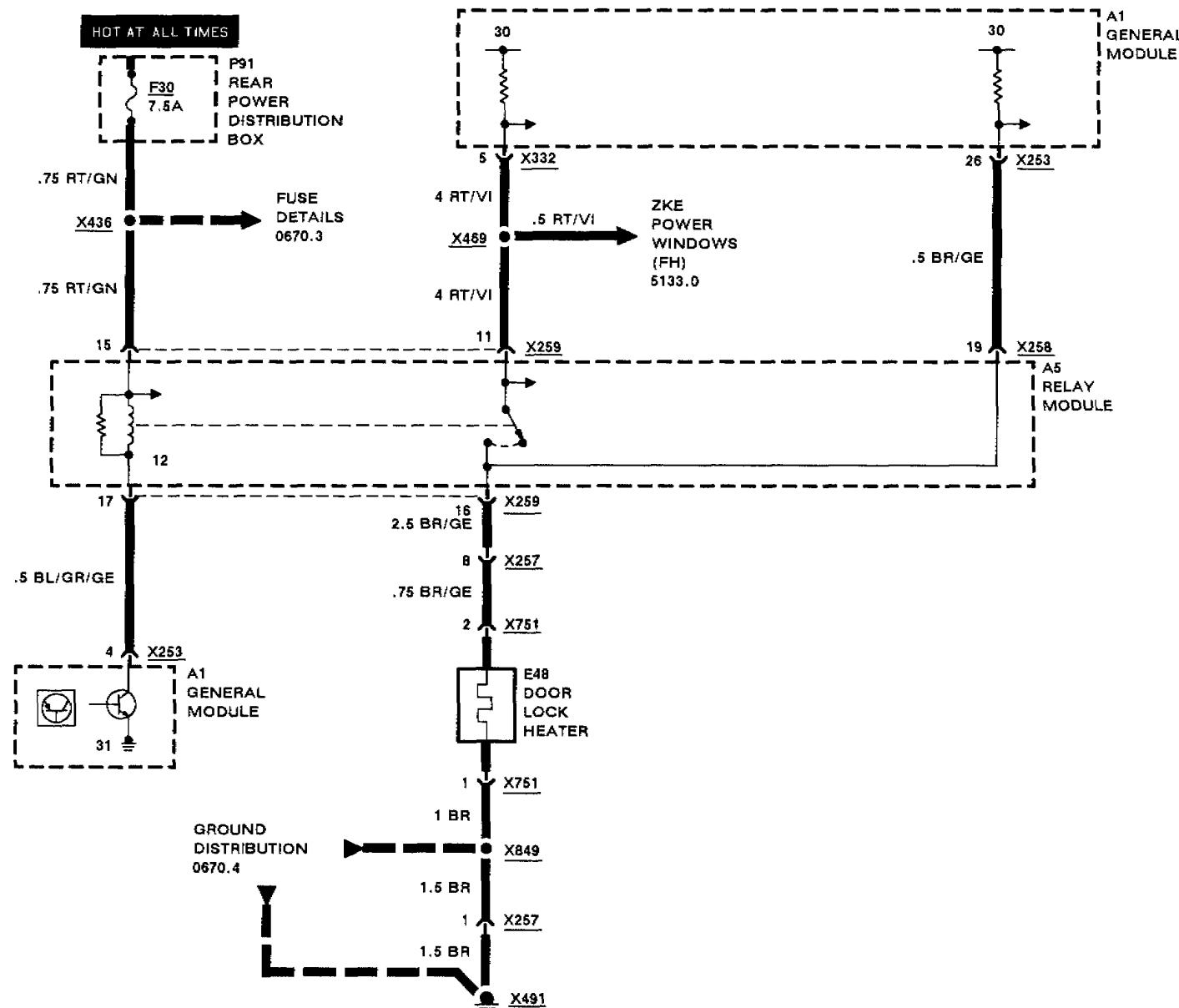
## INPUT DETAILS





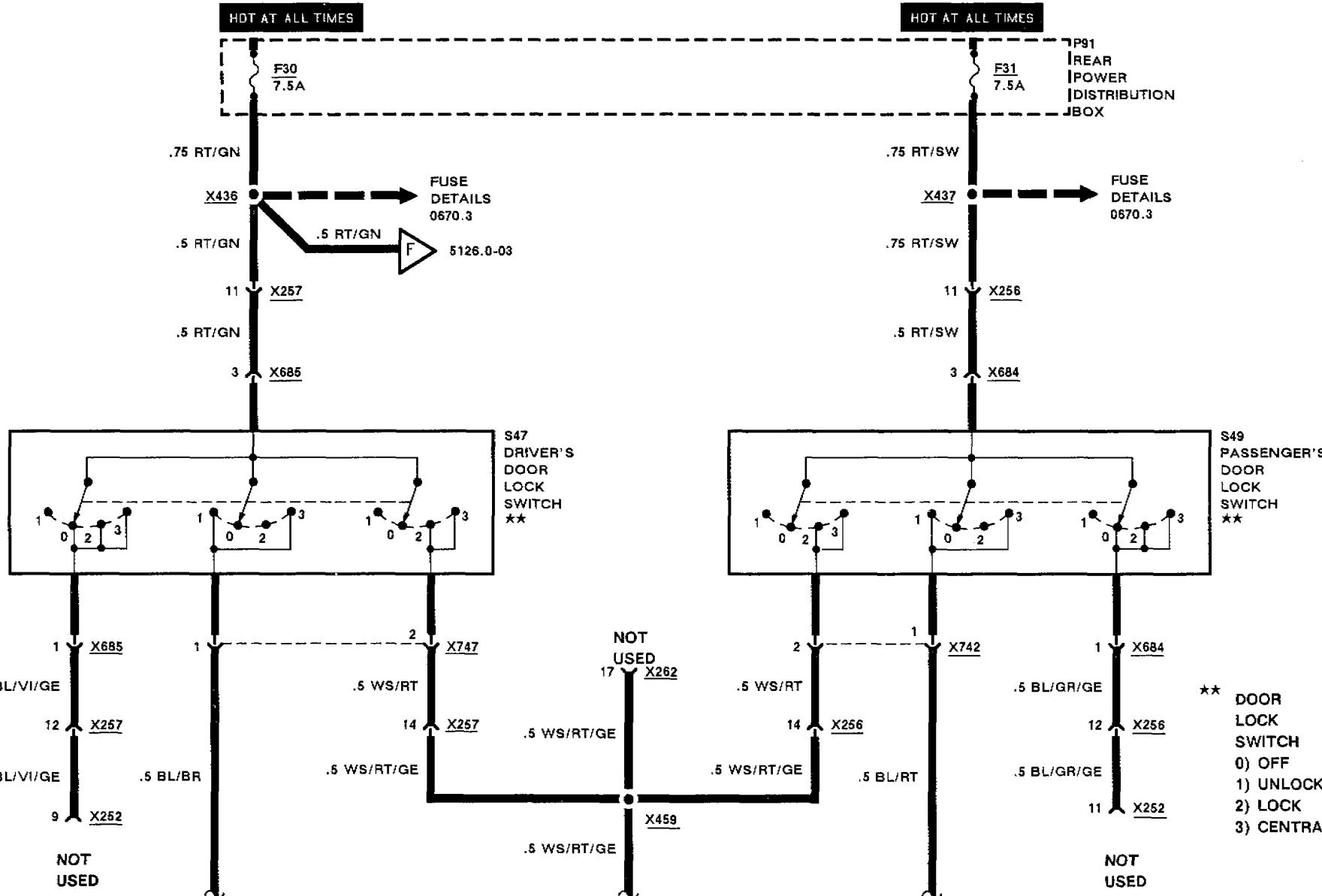
## ZKE DOOR LOCK HEATING (TSH)

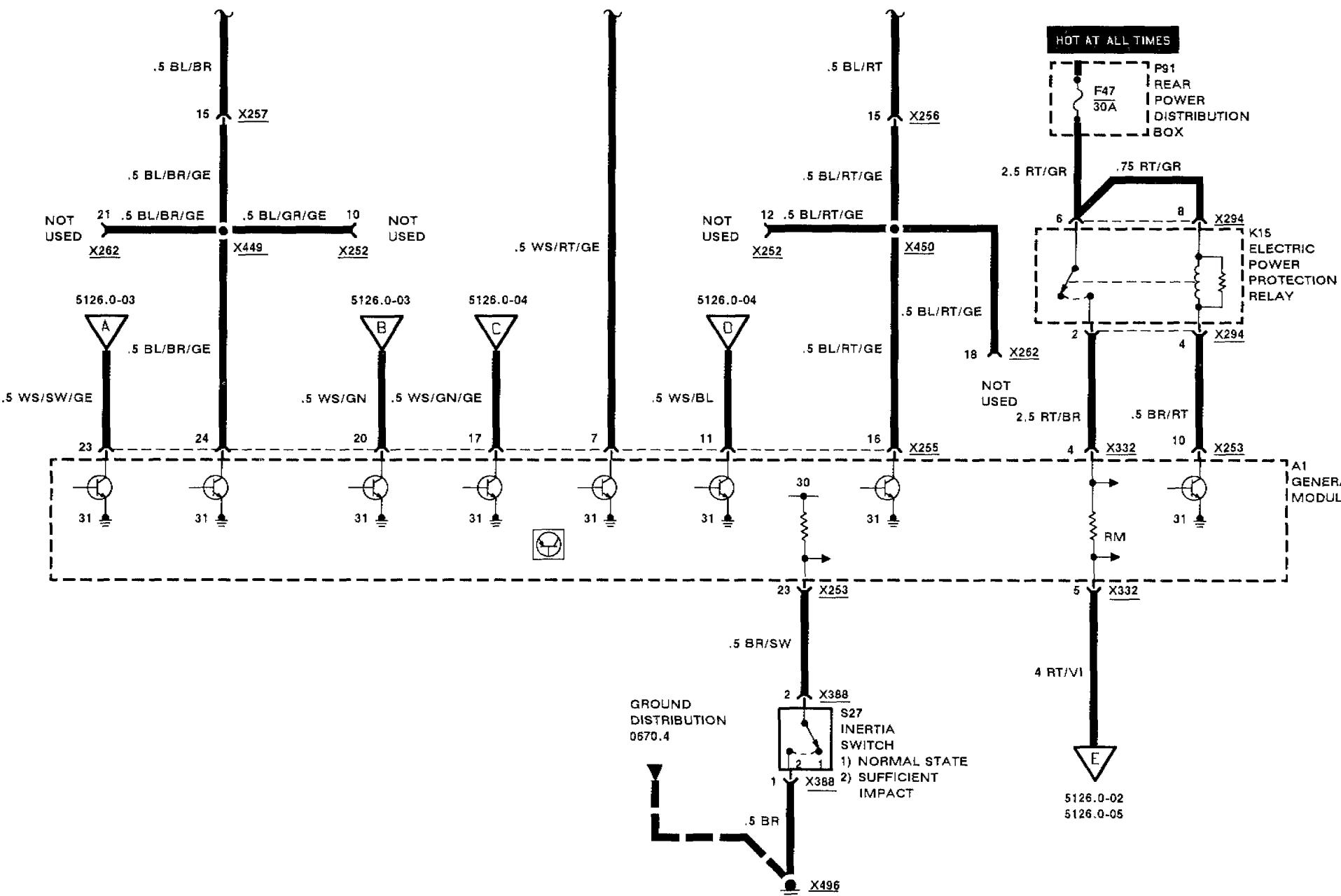
### OUTPUT DETAILS



## ZKE CENTRAL LOCKING (ZV)

## INPUT DETAILS

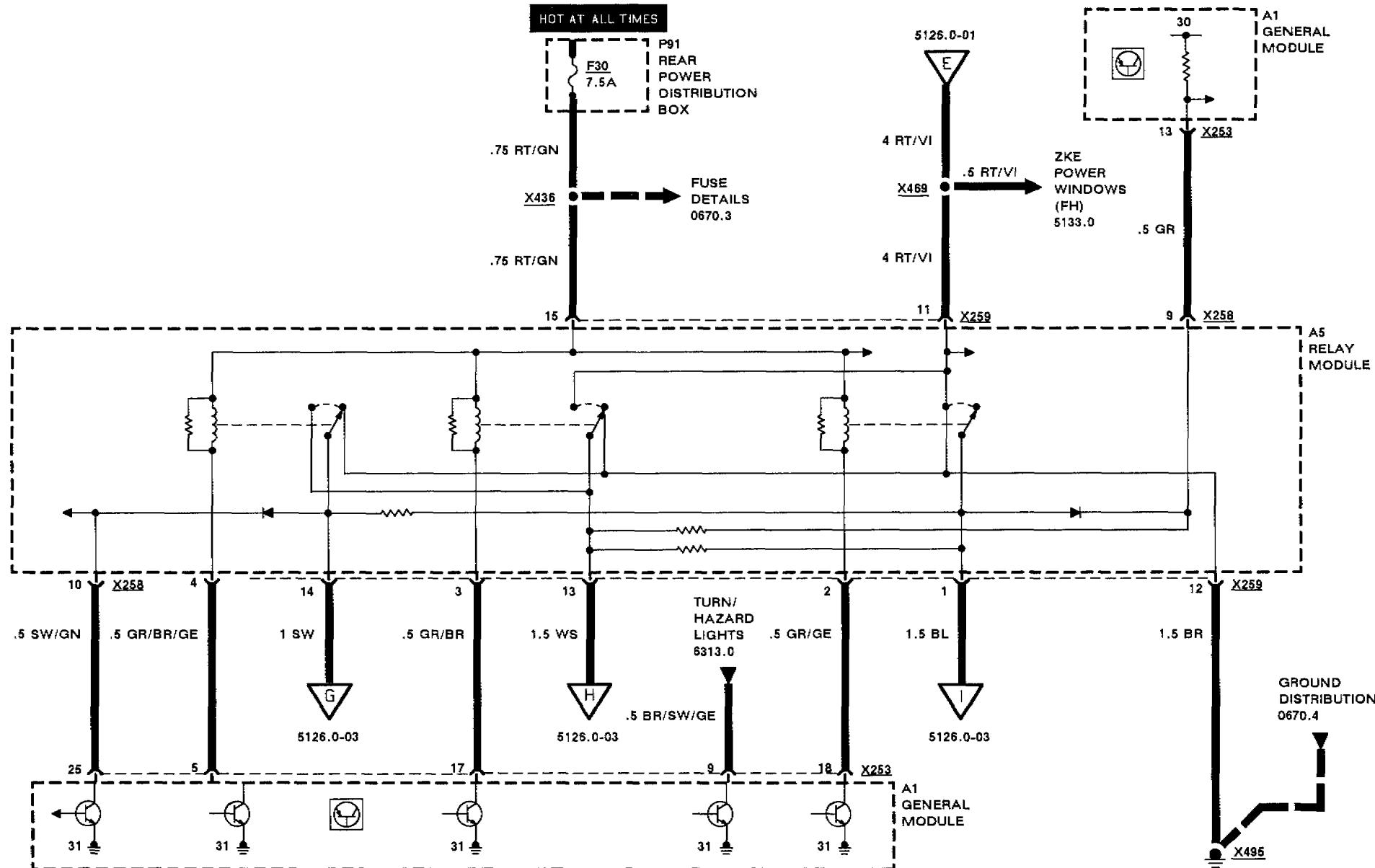


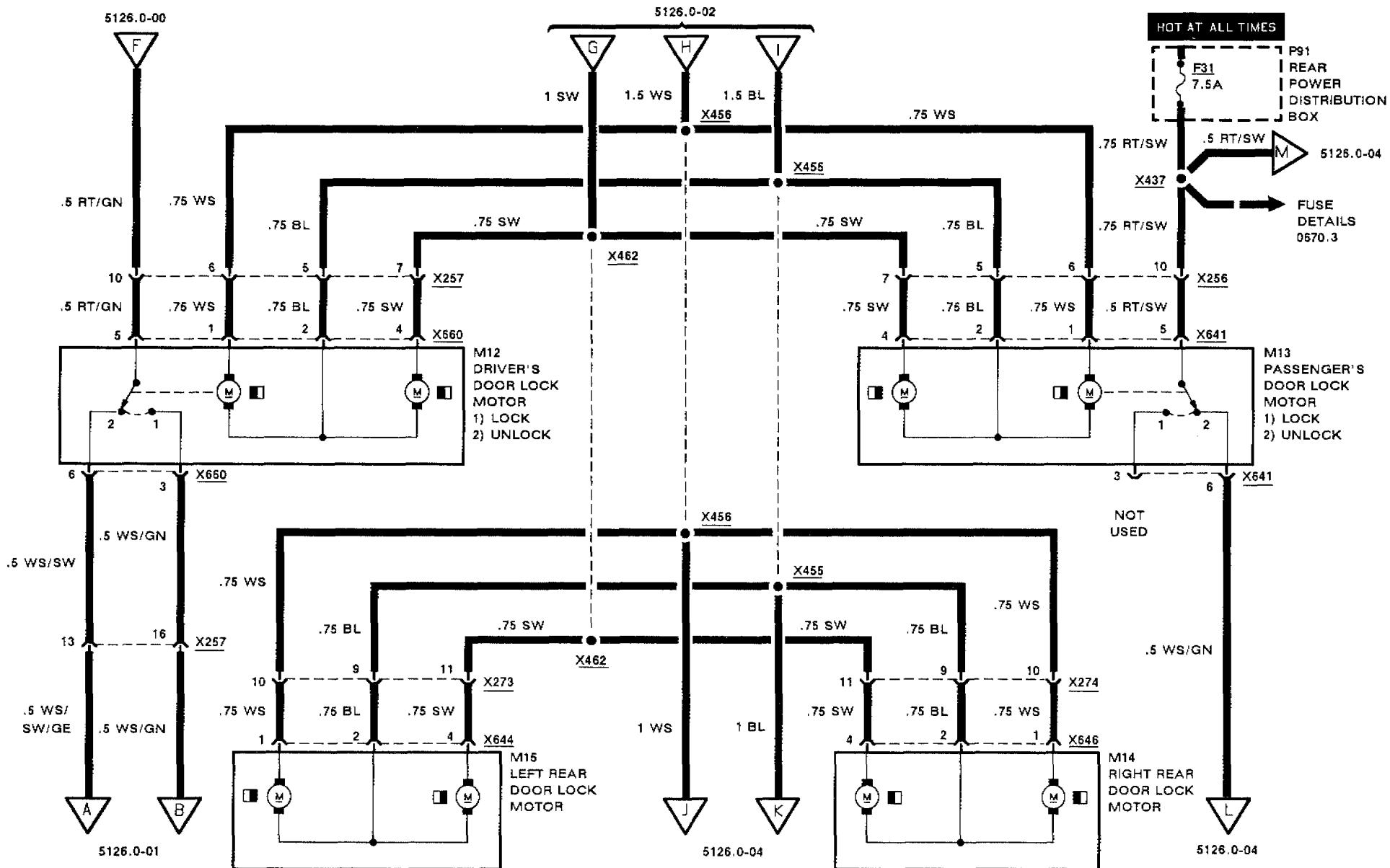




# ZKE CENTRAL LOCKING (ZV)

## OUTPUT DETAILS



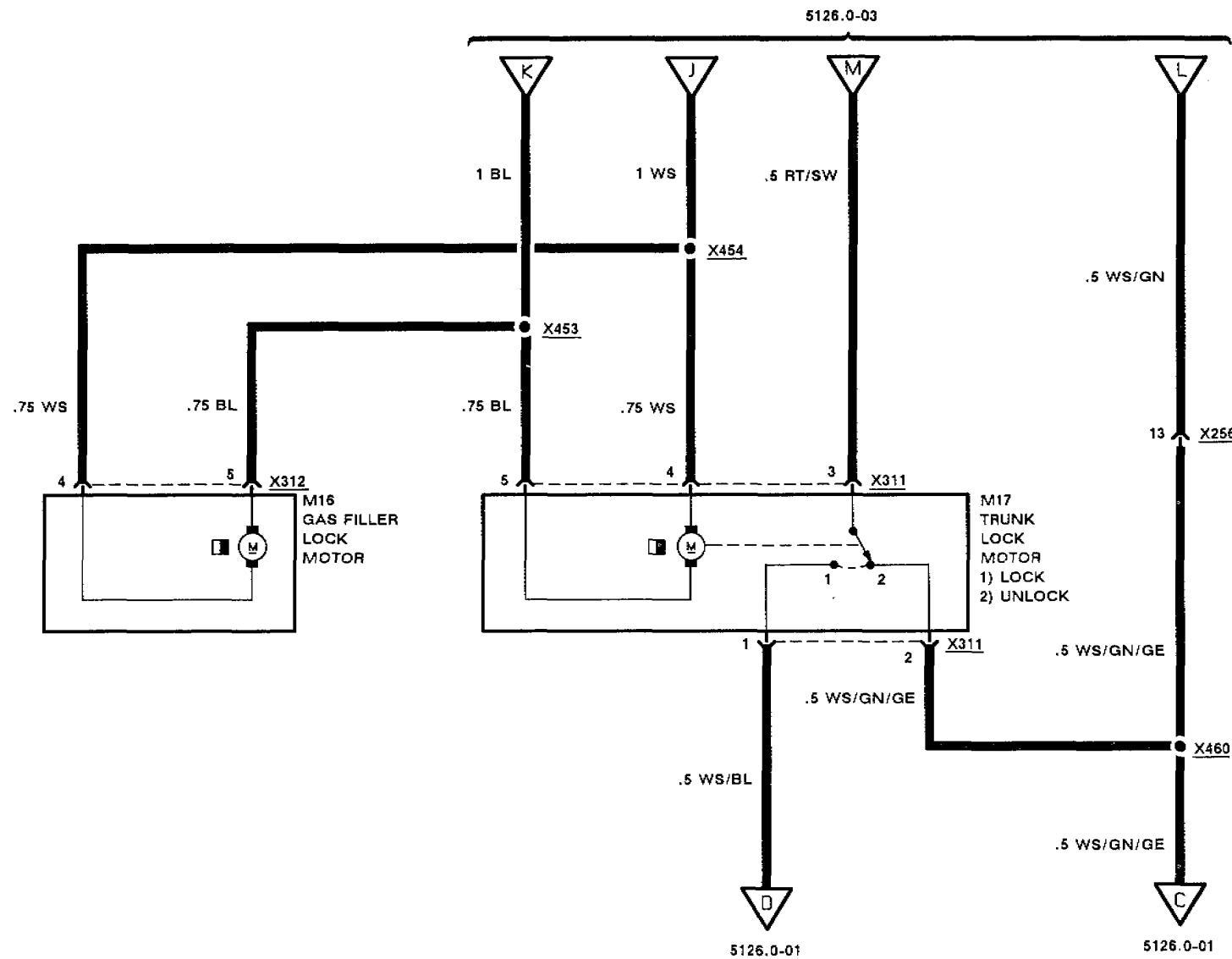




## ZKE CENTRAL LOCKING (ZV)

## **OUTPUT DETAILS**

2/89



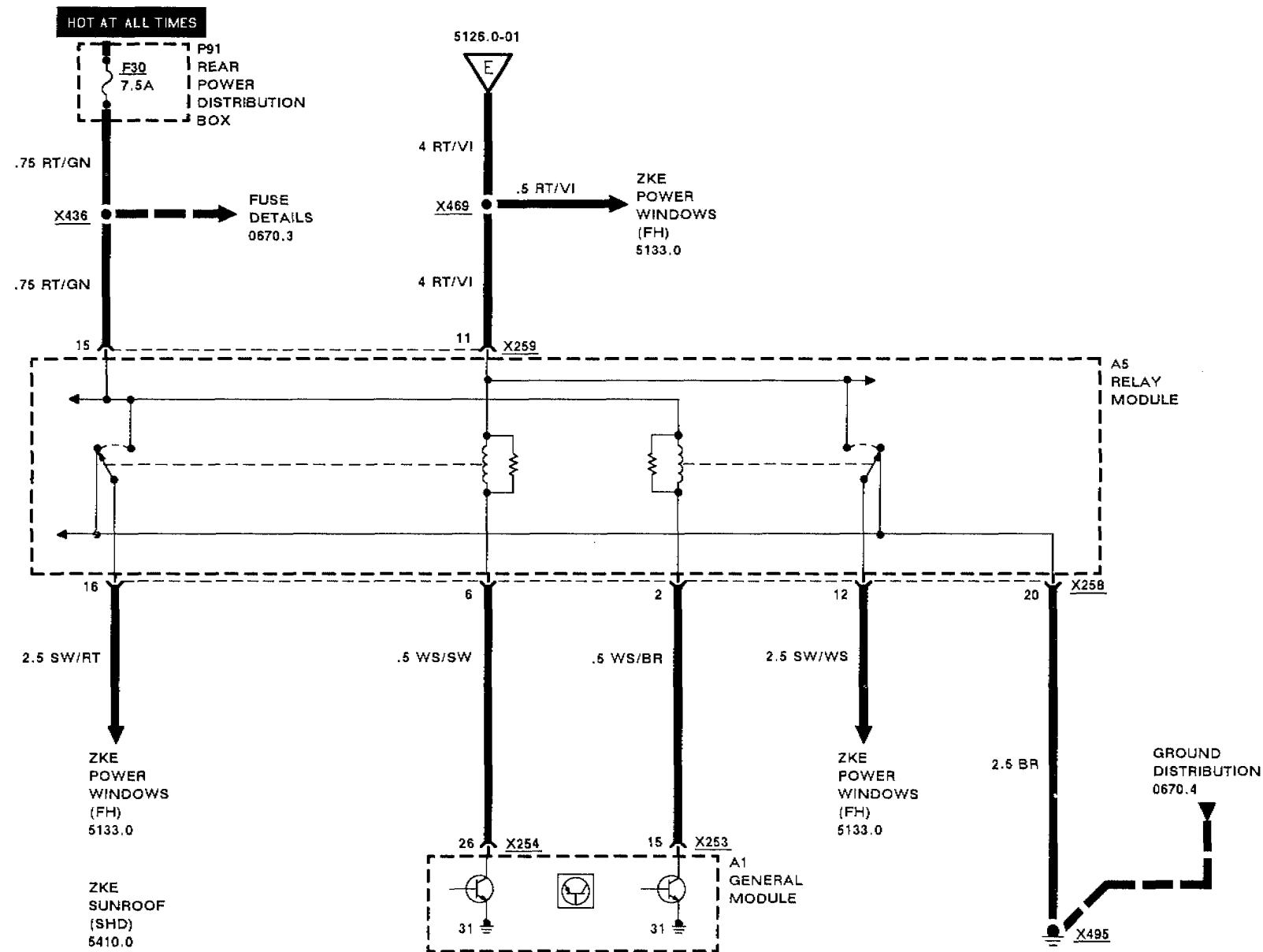
5126.0-04

6861



# ZKE CENTRAL LOCKING (ZV)

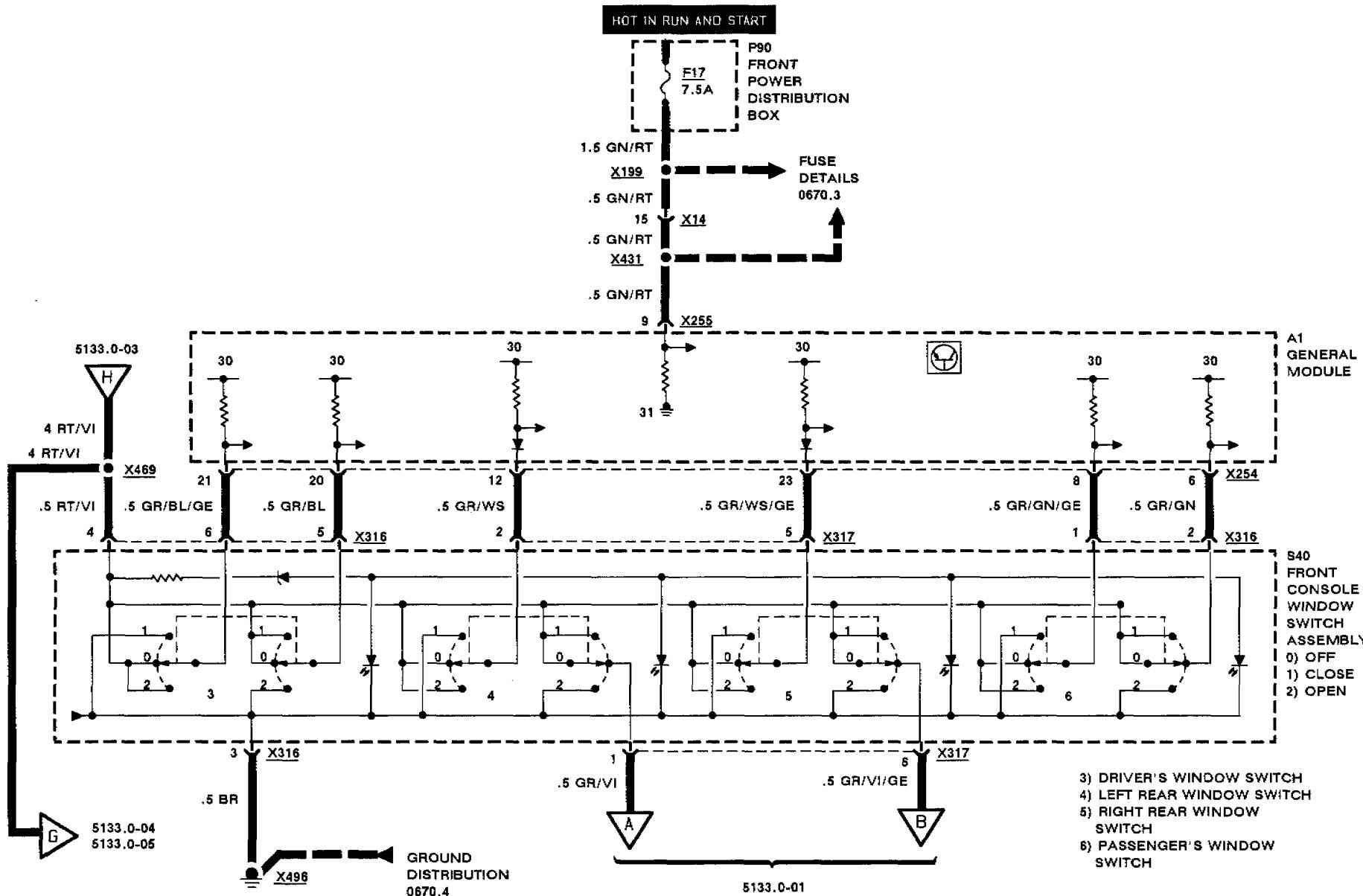
## OUTPUT DETAILS





# ZKE POWER WINDOWS (FH)

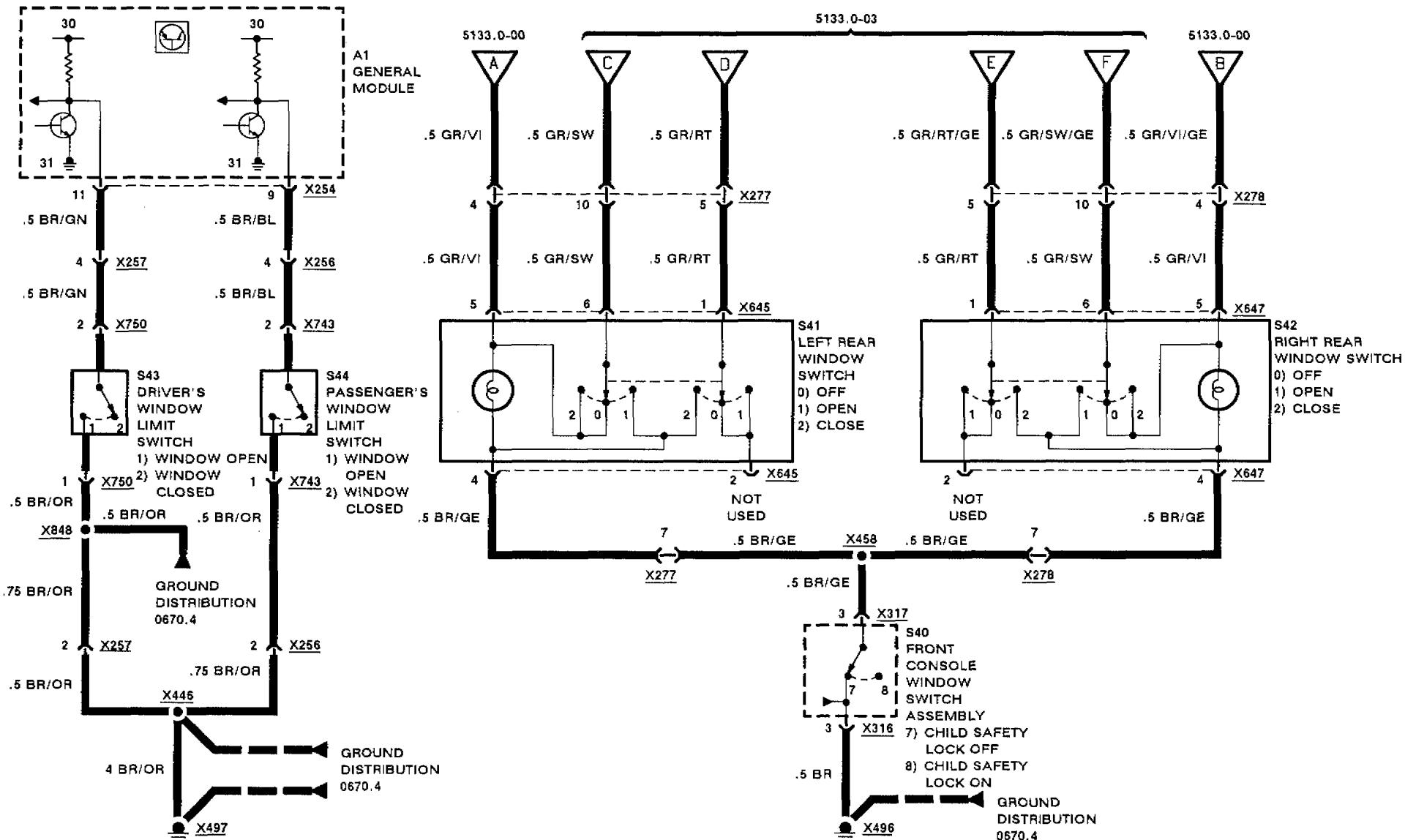
## INPUT DETAILS

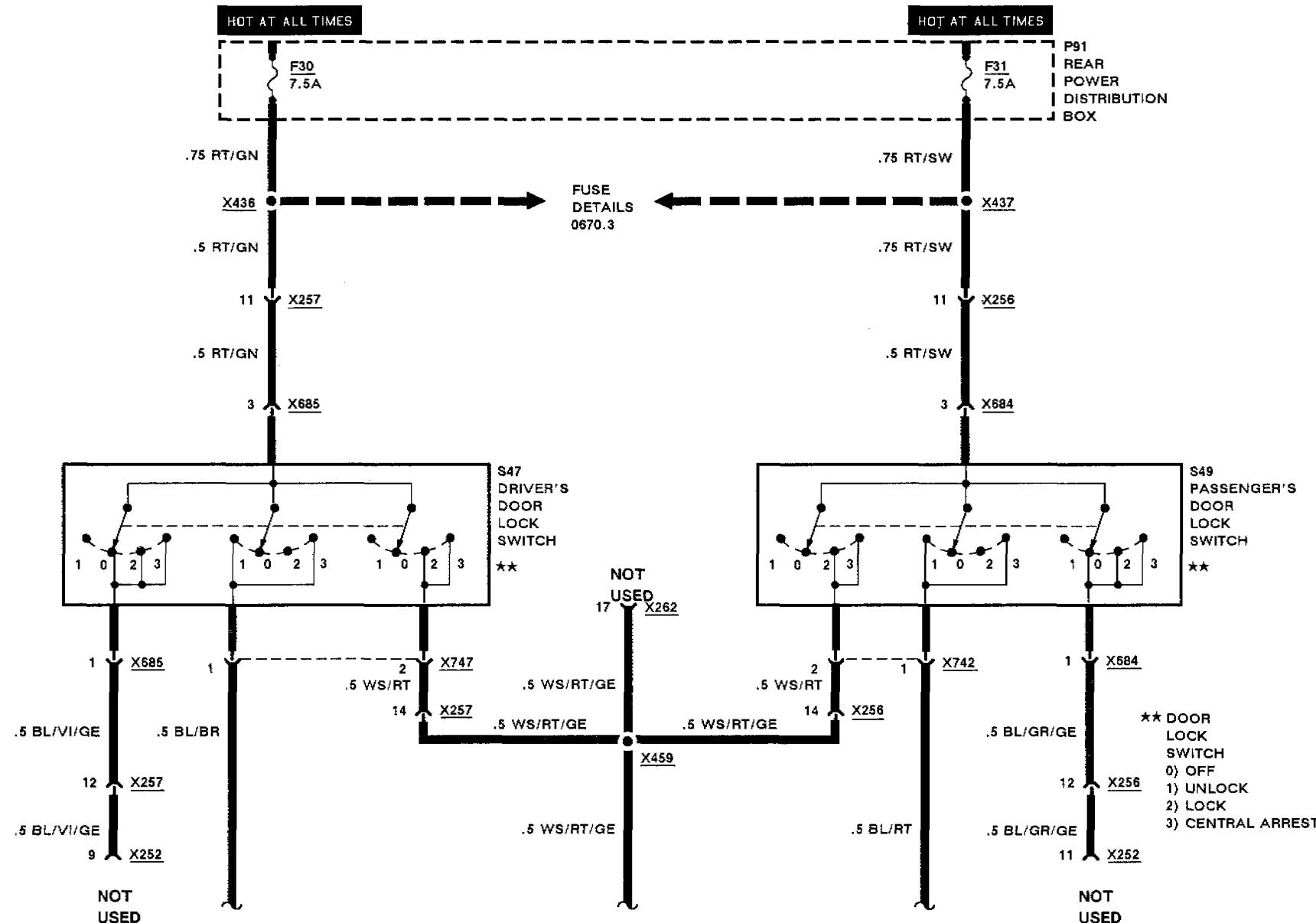


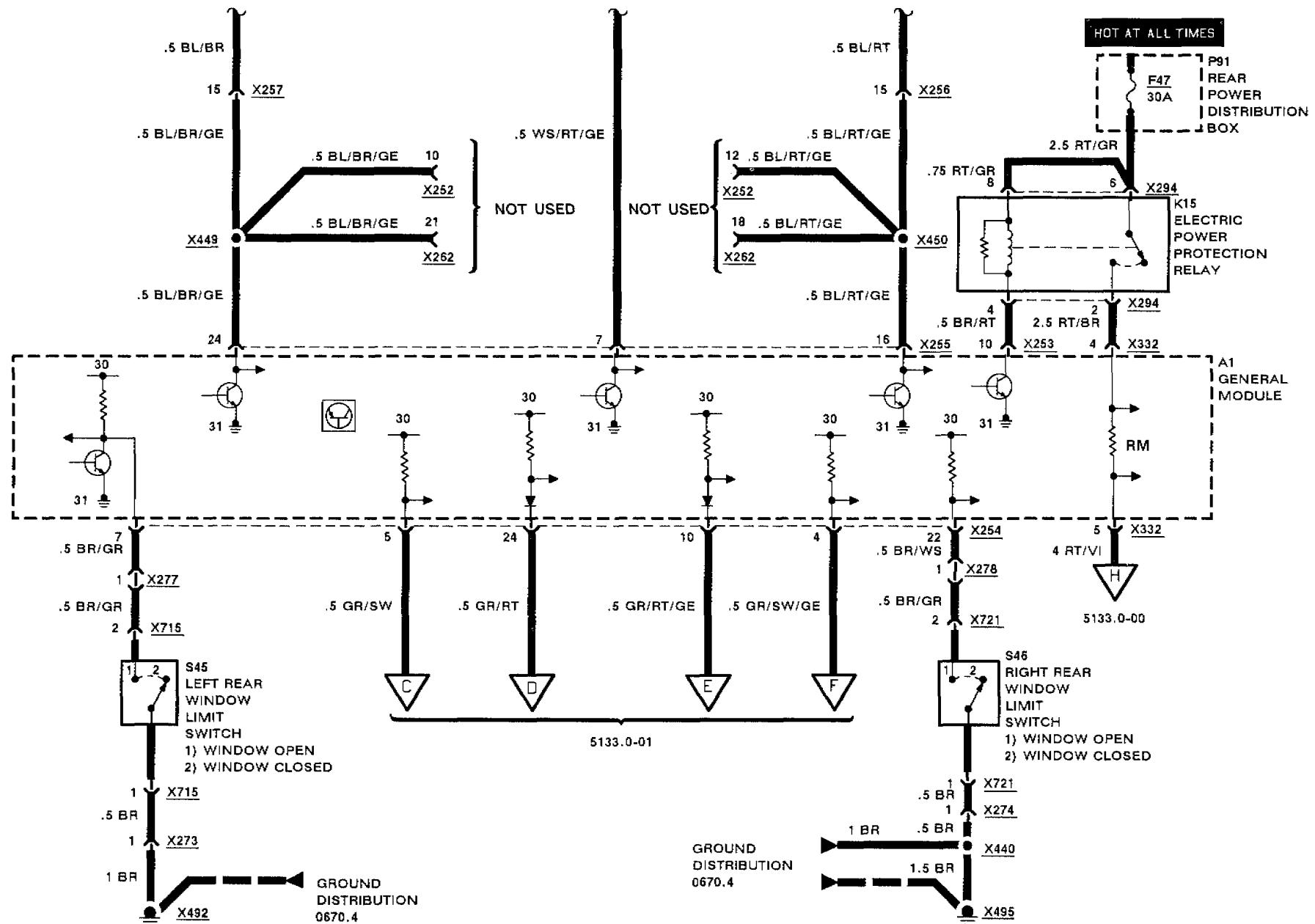


# ZKE POWER WINDOWS (FH)

## INPUT DETAILS









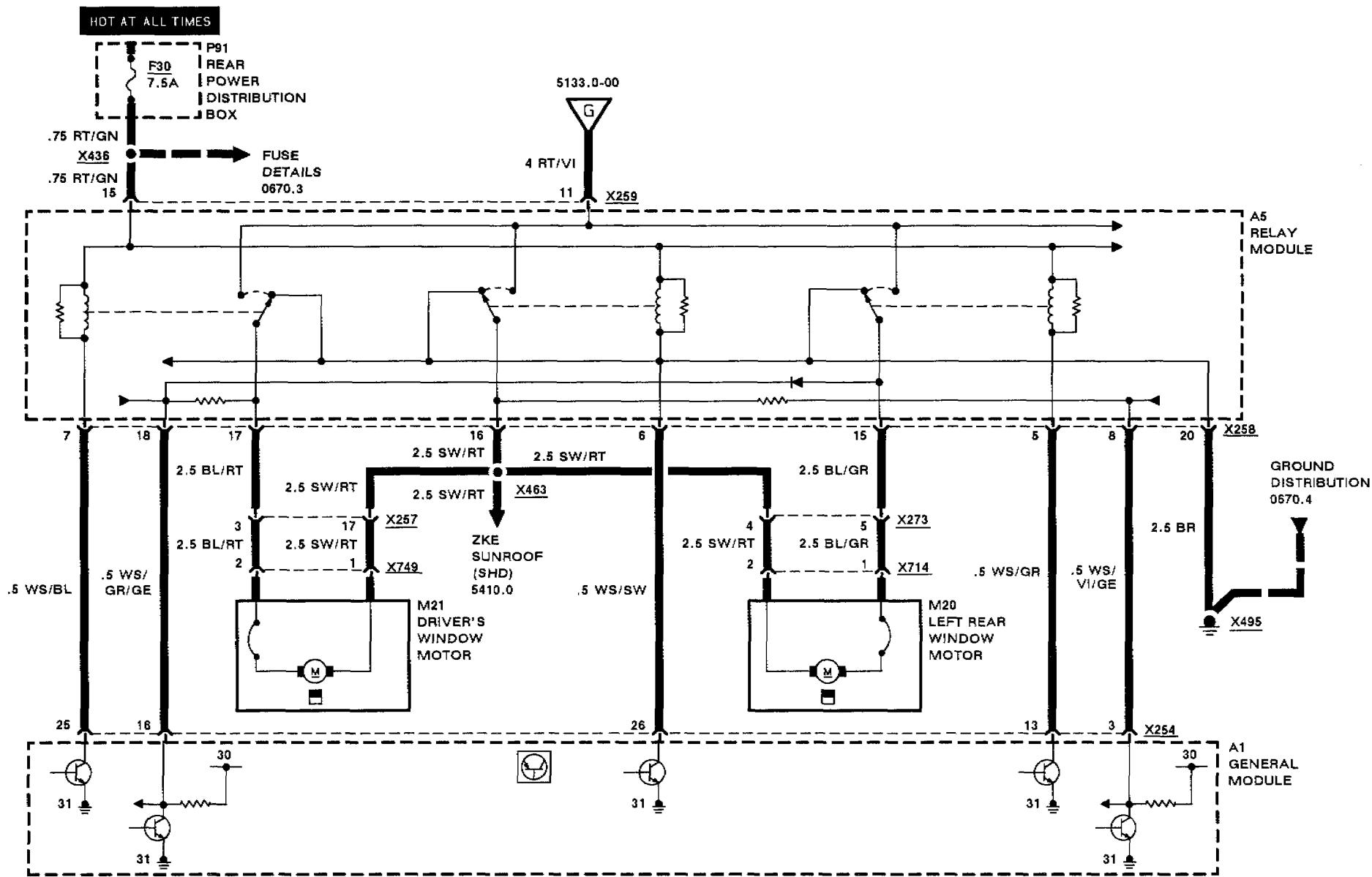
## ZKE POWER WINDOWS (FH)

### LEFT SIDE OUTPUT DETAILS

2/89

5133.0-04

1989





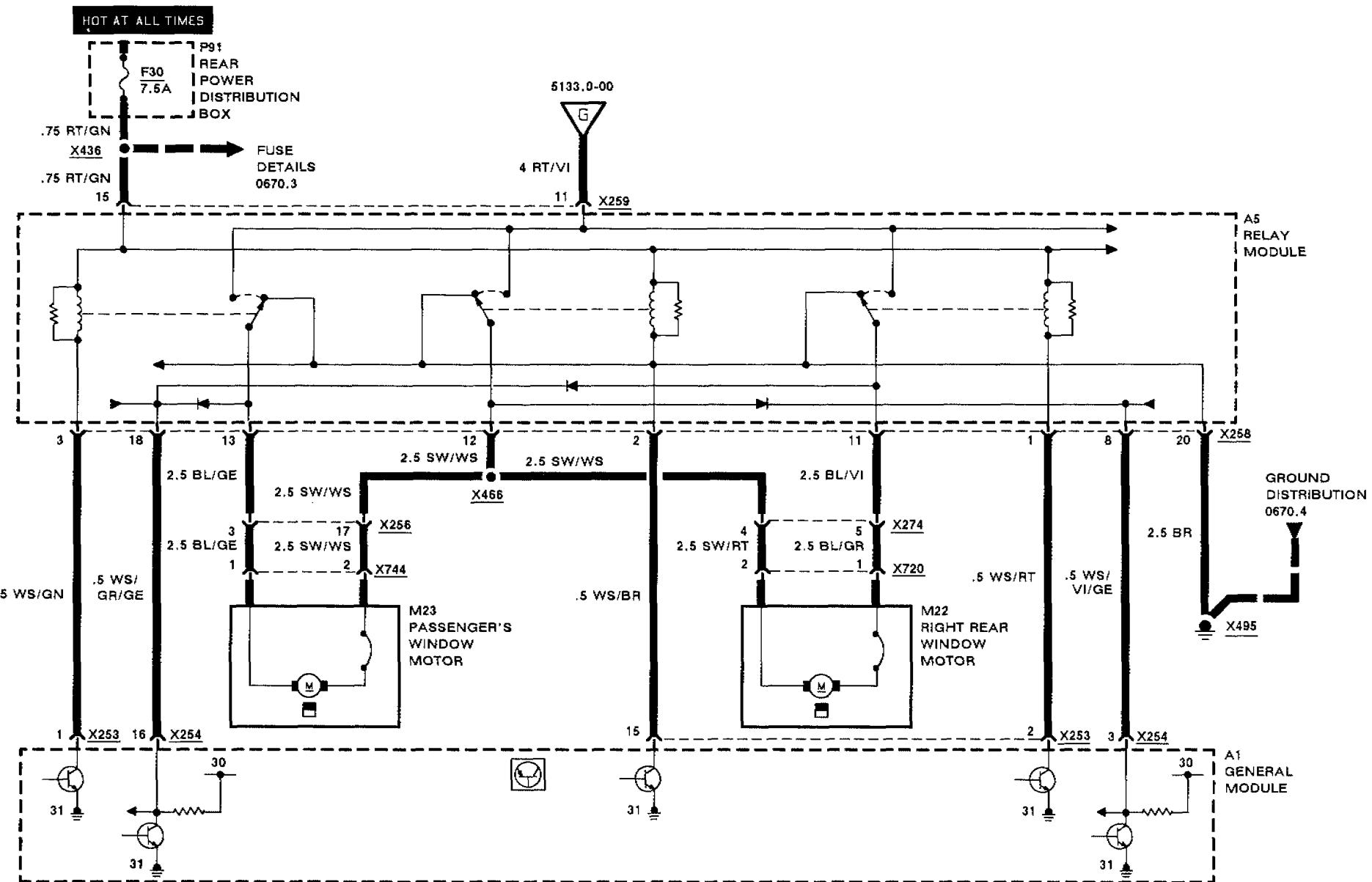
#### **ZKE POWER WINDOWS (FH)**

## **RIGHT SIDE OUTPUT DETAILS**

2  
88

5133.0-05

一  
九  
三  
九



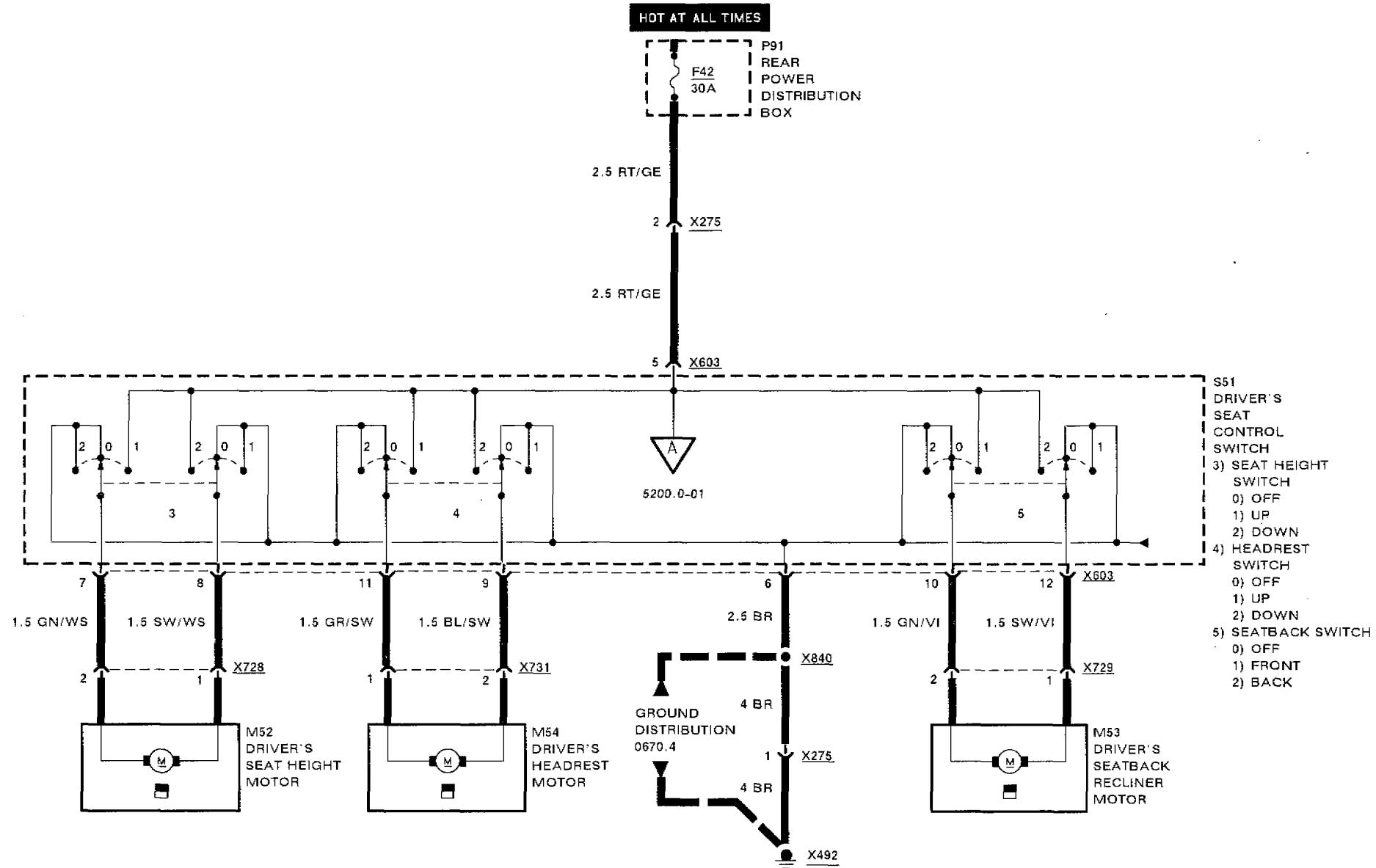


# POWER SEATS

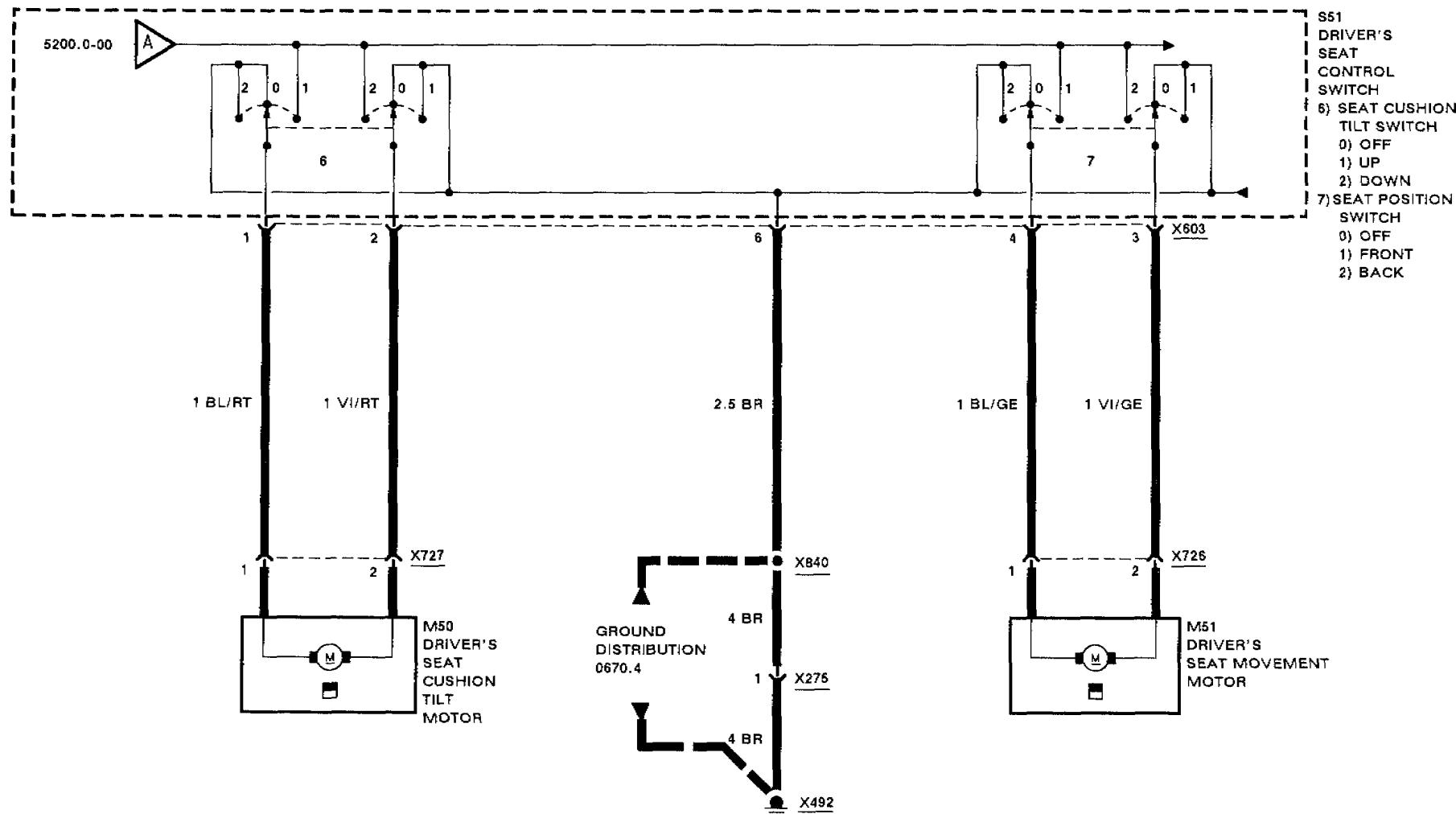
## DRIVER'S SEAT

2/89

5200.0-00



1989





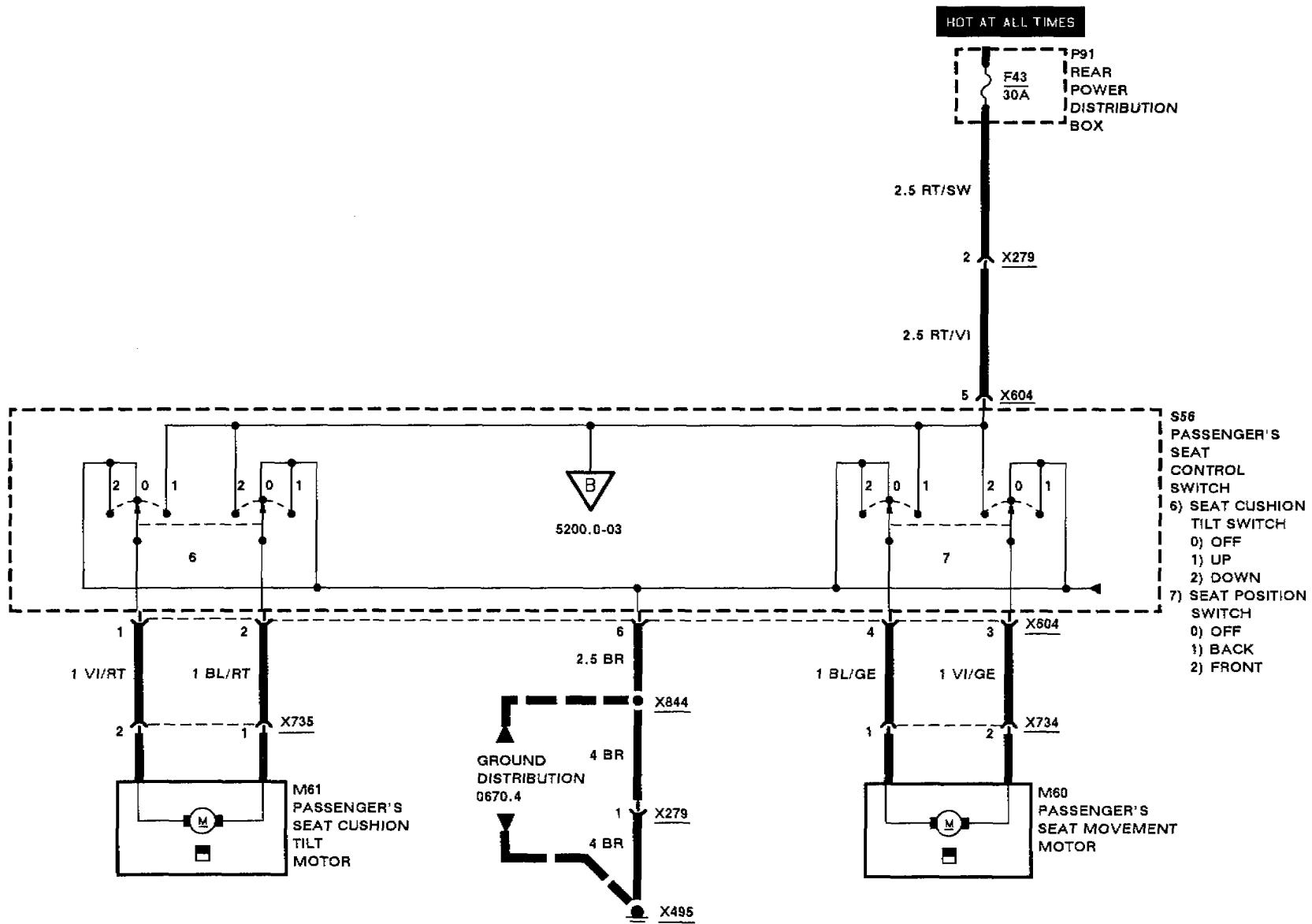
# POWER SEATS

## PASSENGER'S SEAT

2/89

5200.0-02

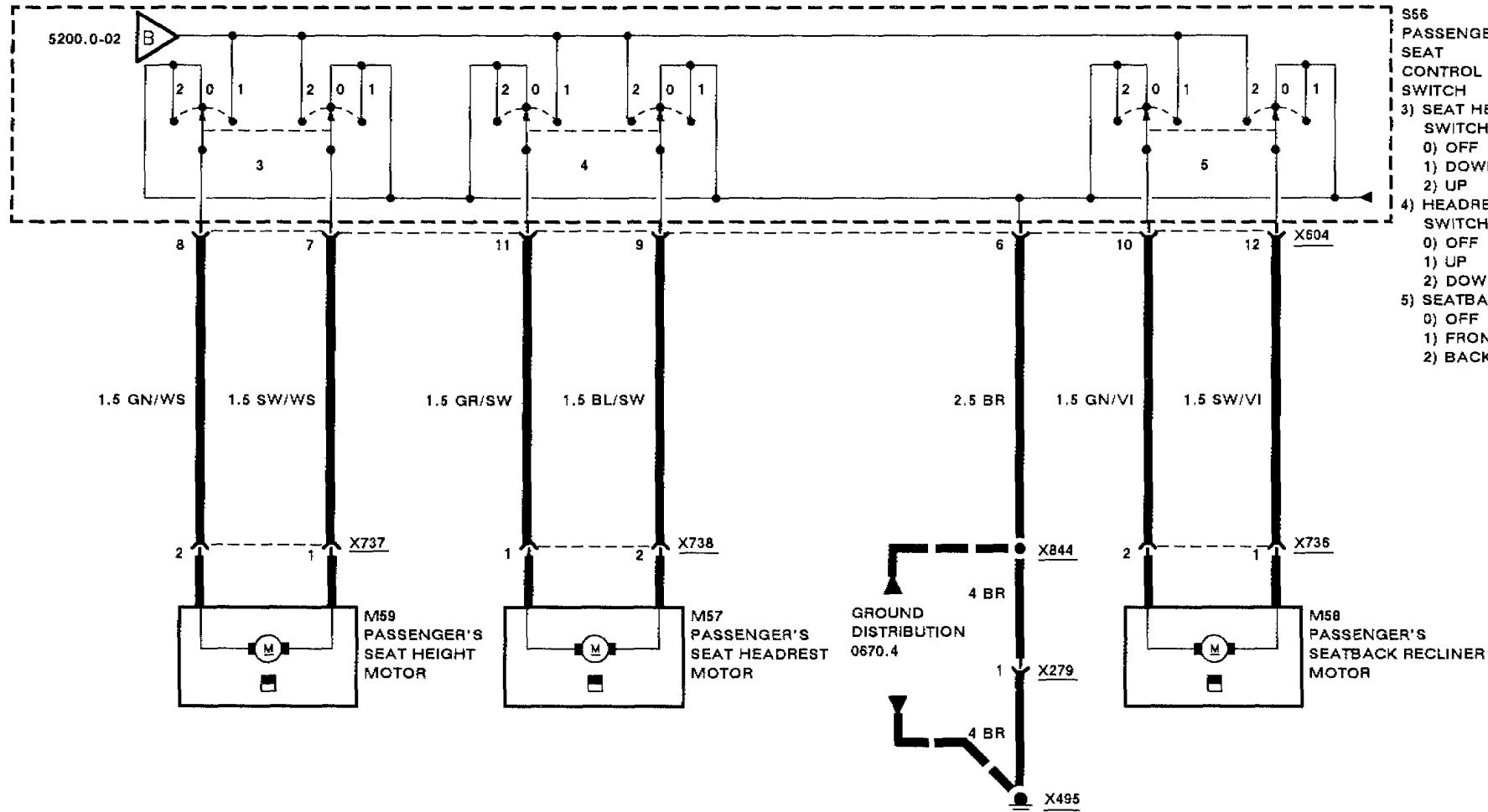
1989



**BMW**  
**5** **POWER SEATS**  
PASSENGER'S SEAT

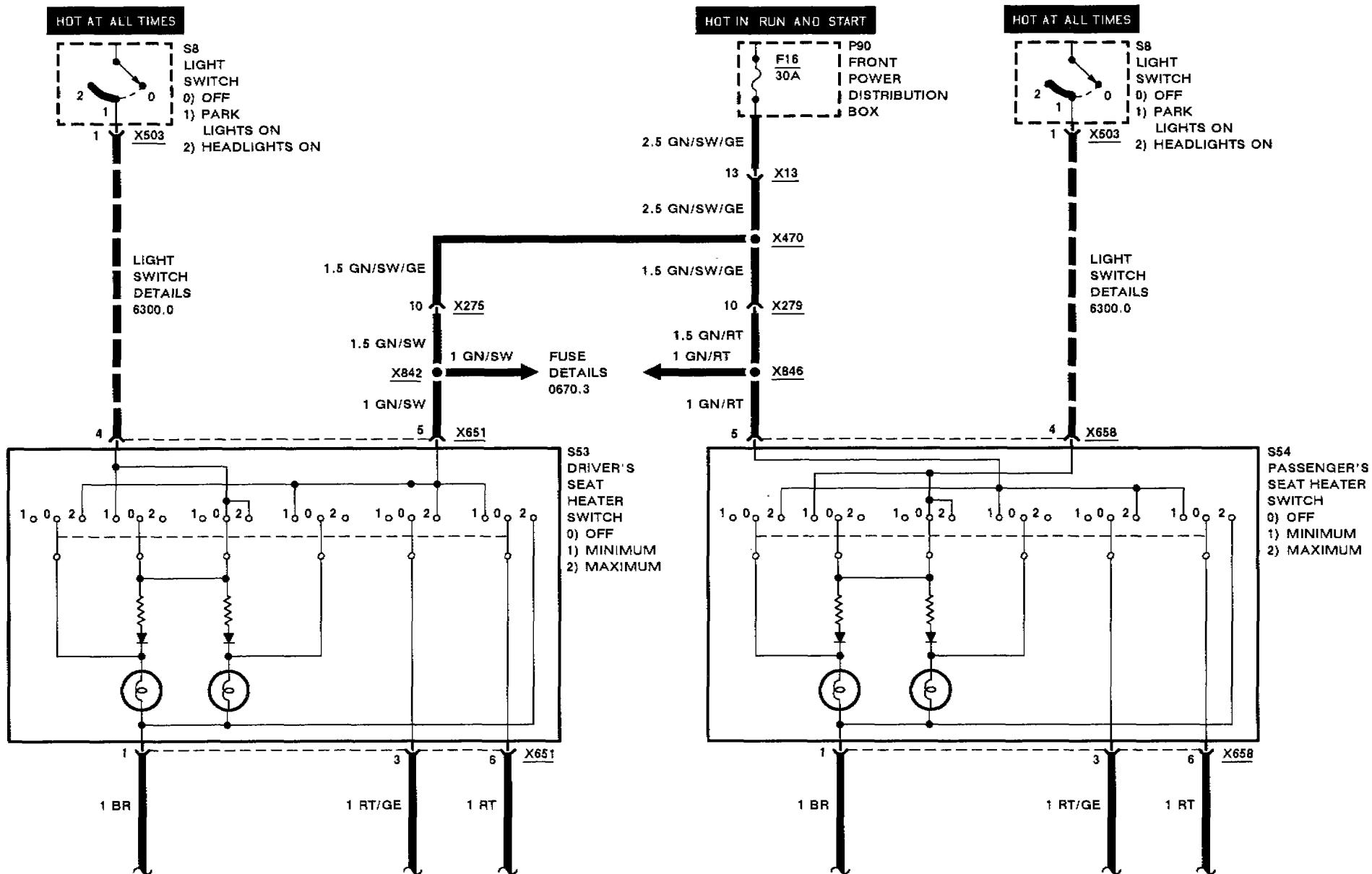
2/89

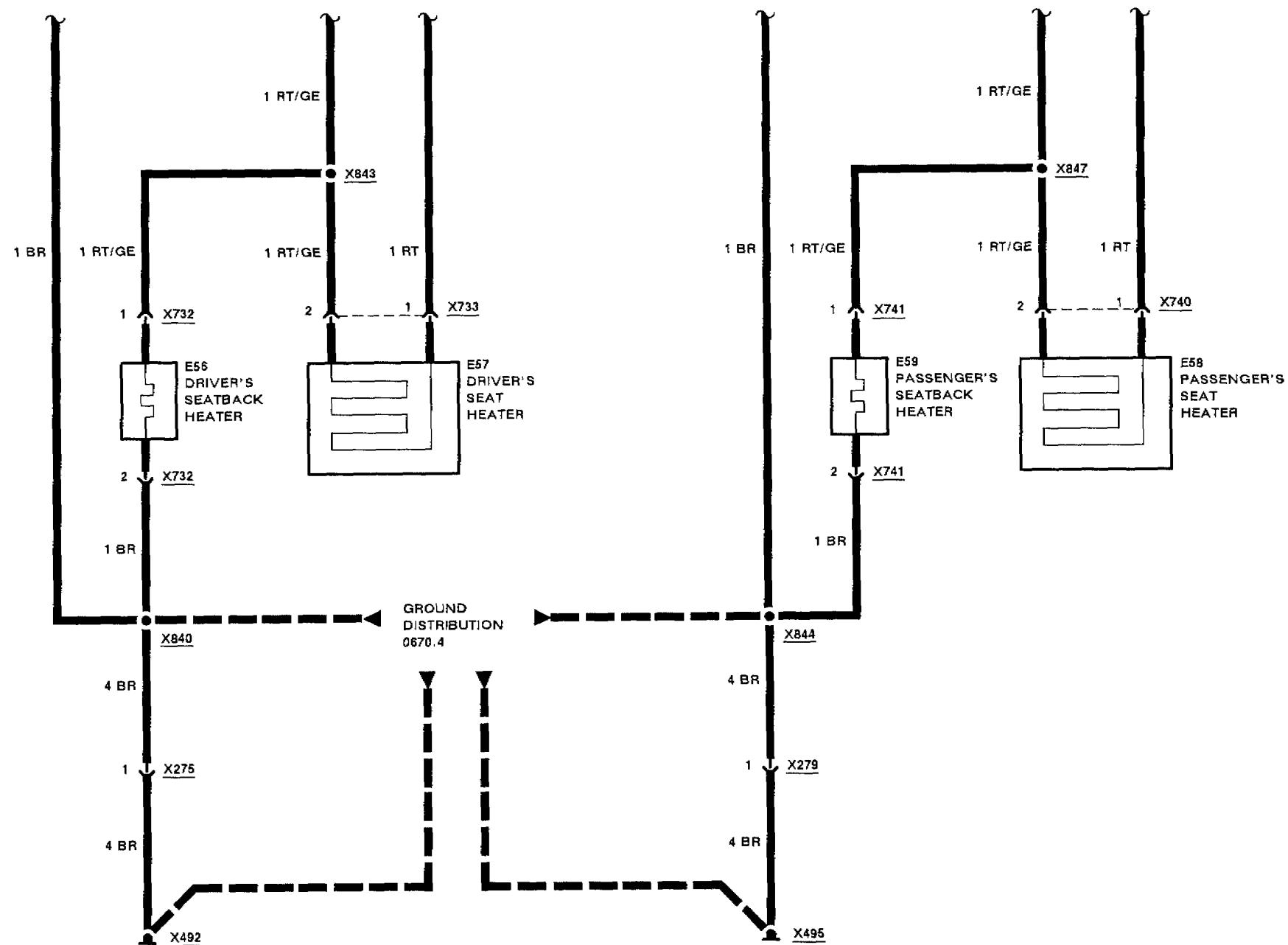
S66  
PASSENGER'S  
SEAT  
CONTROL  
SWITCH  
3) SEAT HEIGHT  
SWITCH  
0) OFF  
1) DOWN  
2) UP  
4) HEADREST  
SWITCH  
0) OFF  
1) UP  
2) DOWN  
5) SEATBACK SWITCH  
0) OFF  
1) FRONT  
2) BACK



5200.0-03

1989

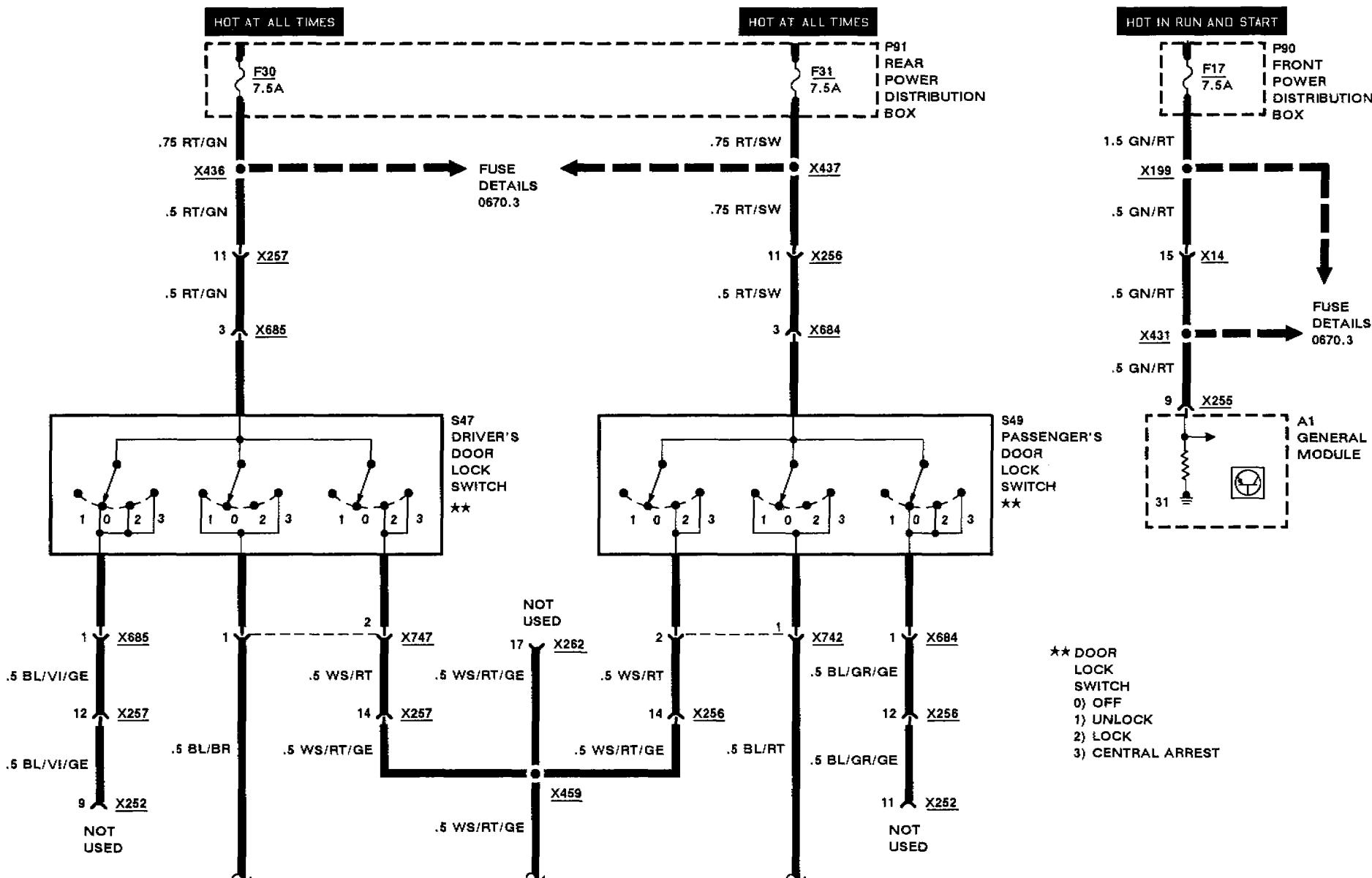


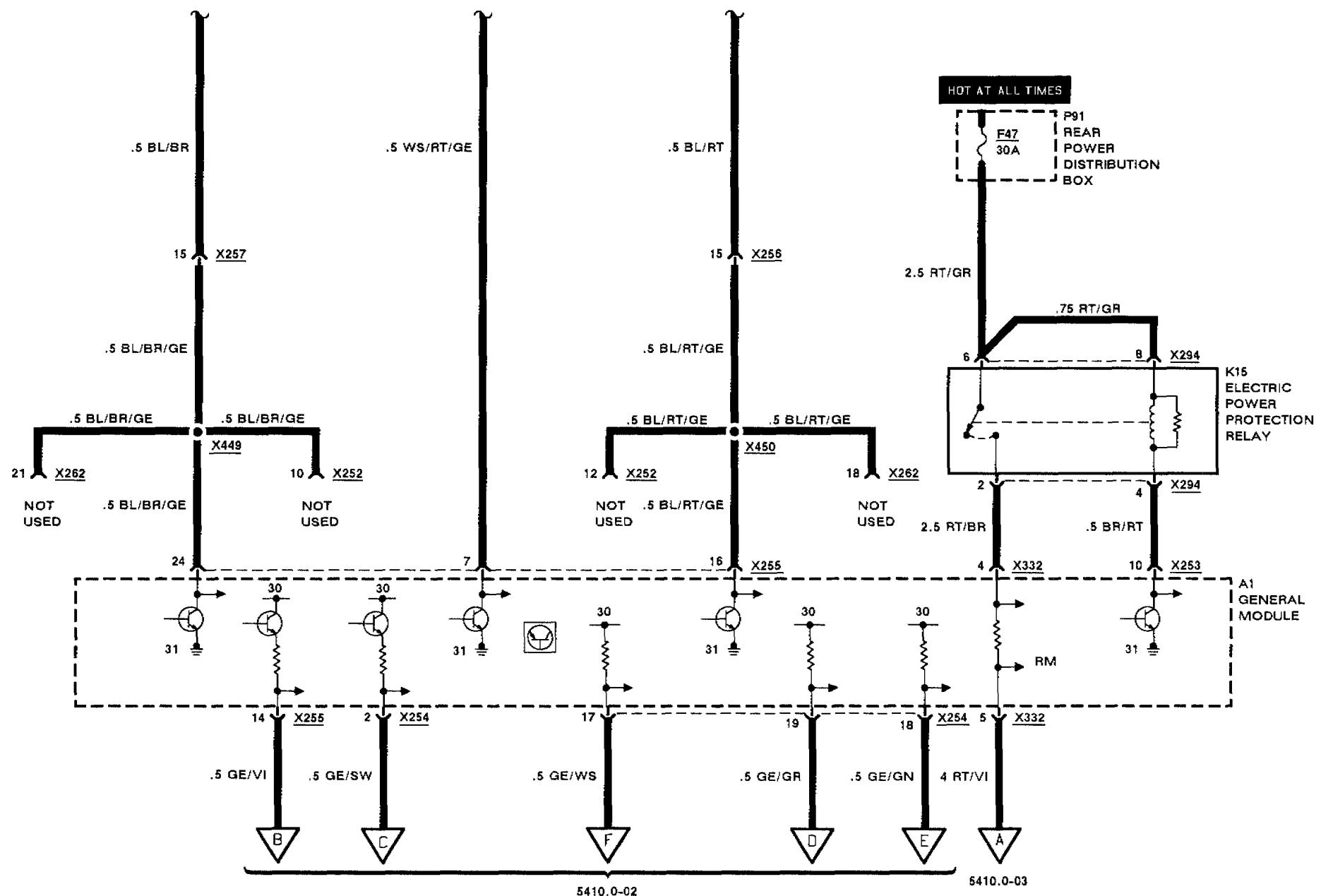




# ZKE SUNROOF (SHD)

## INPUT DETAILS







# ZKE SUNROOF (SHD)

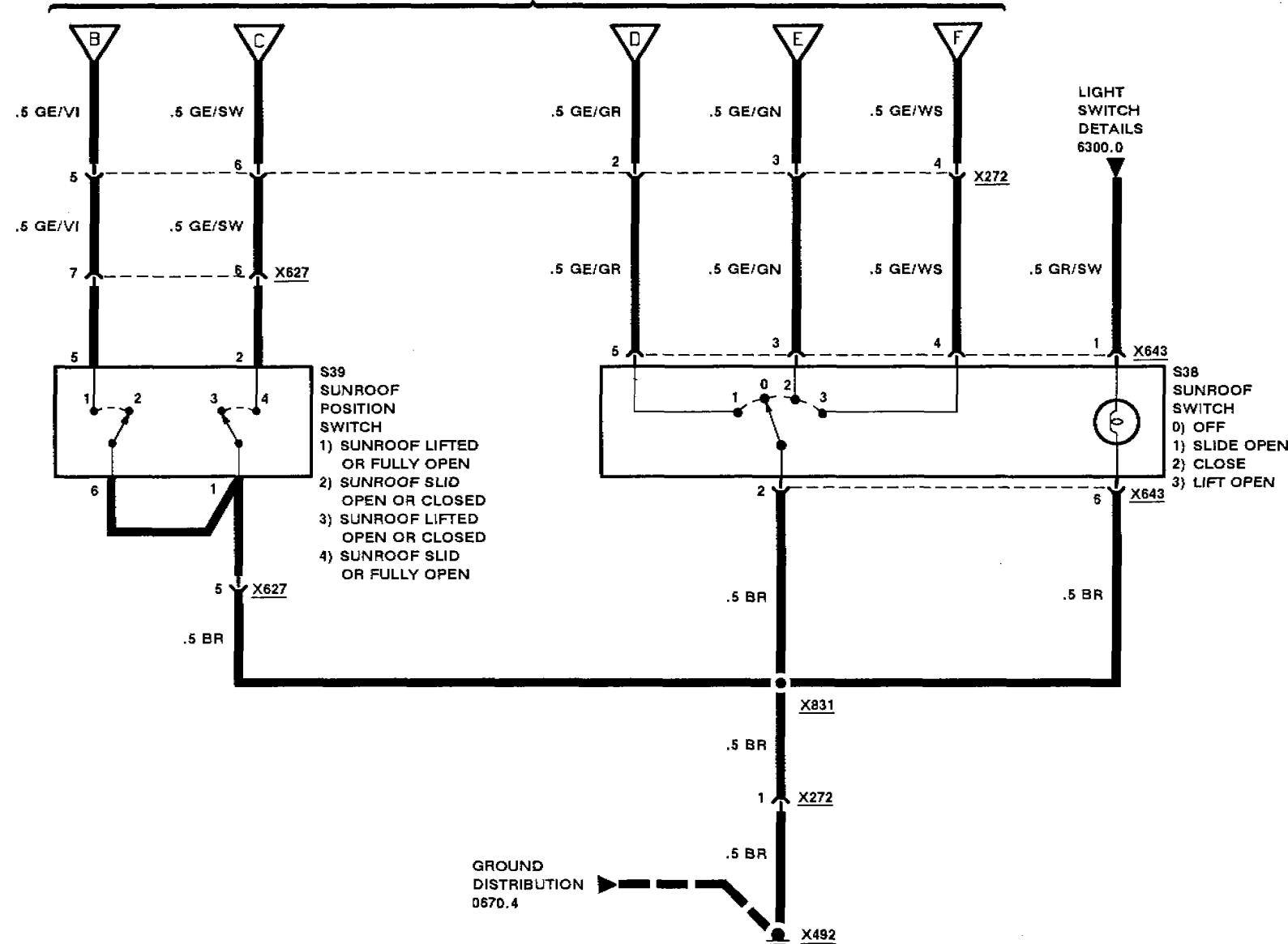
## INPUT DETAILS

2/89

5410.0-02

1989

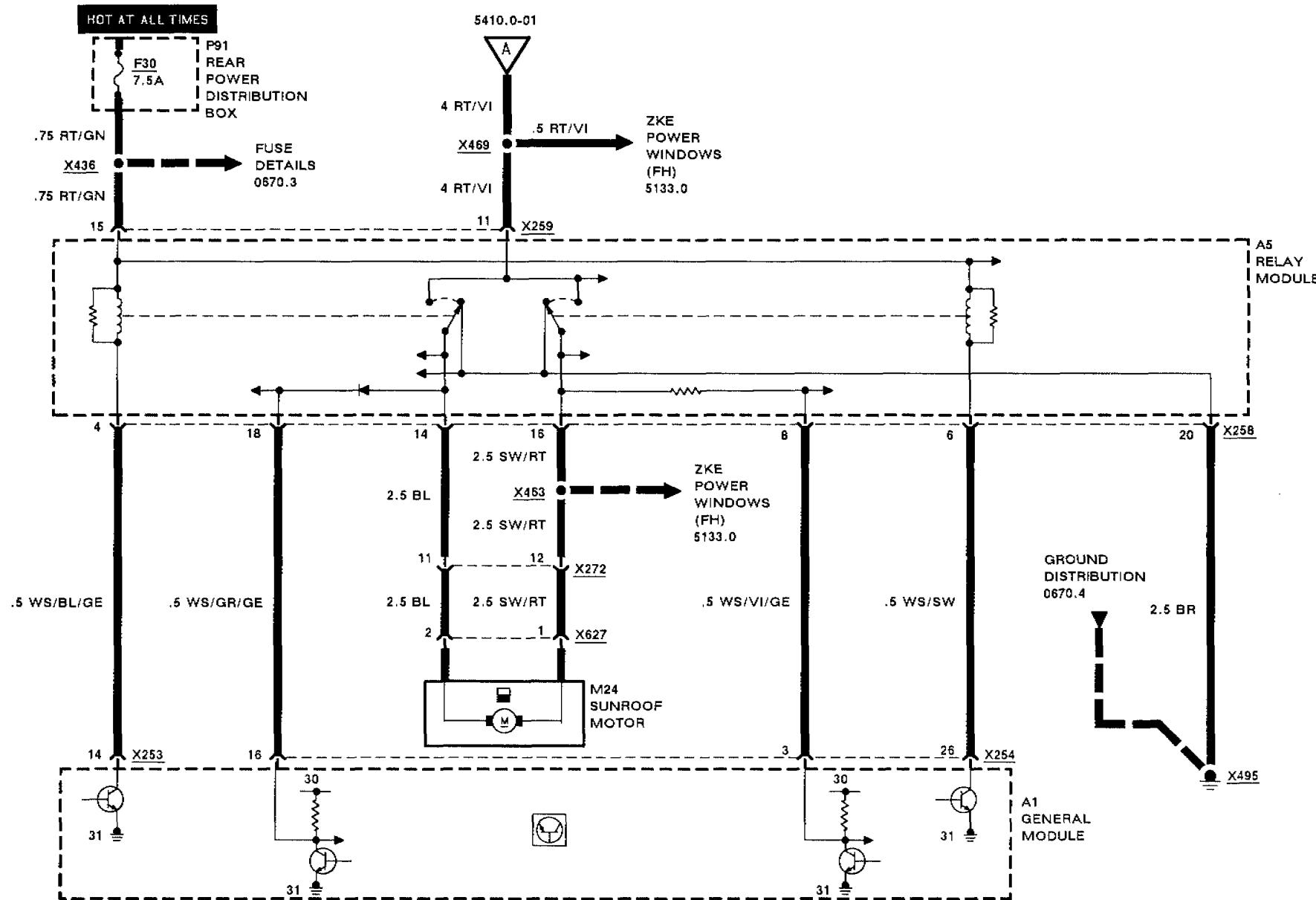
5410.0-01





## ZKE SUNROOF (SHD)

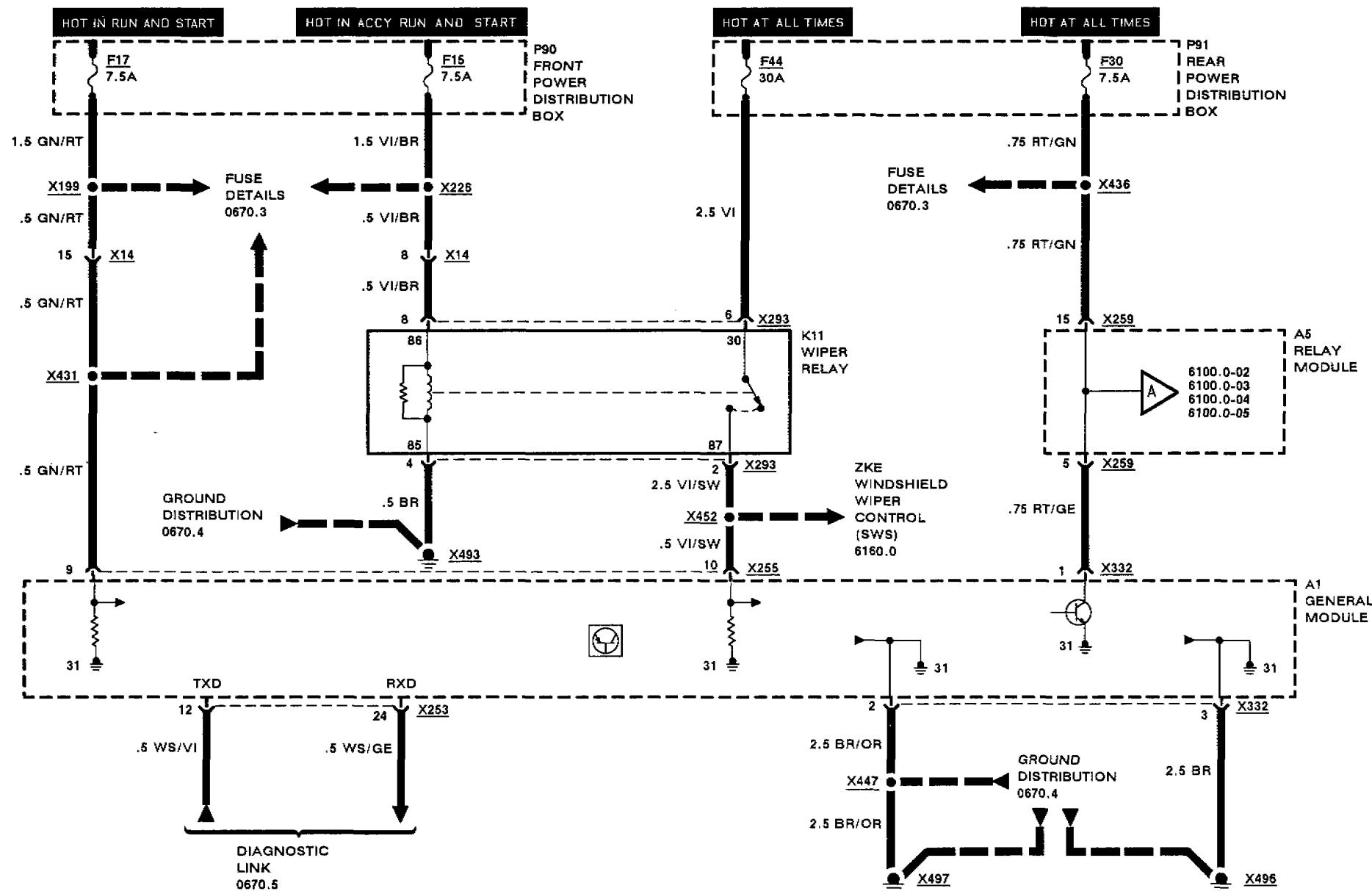
### OUTPUT DETAILS





# CENTRAL BODY ELECTRONICS (ZKE)

## GENERAL MODULE

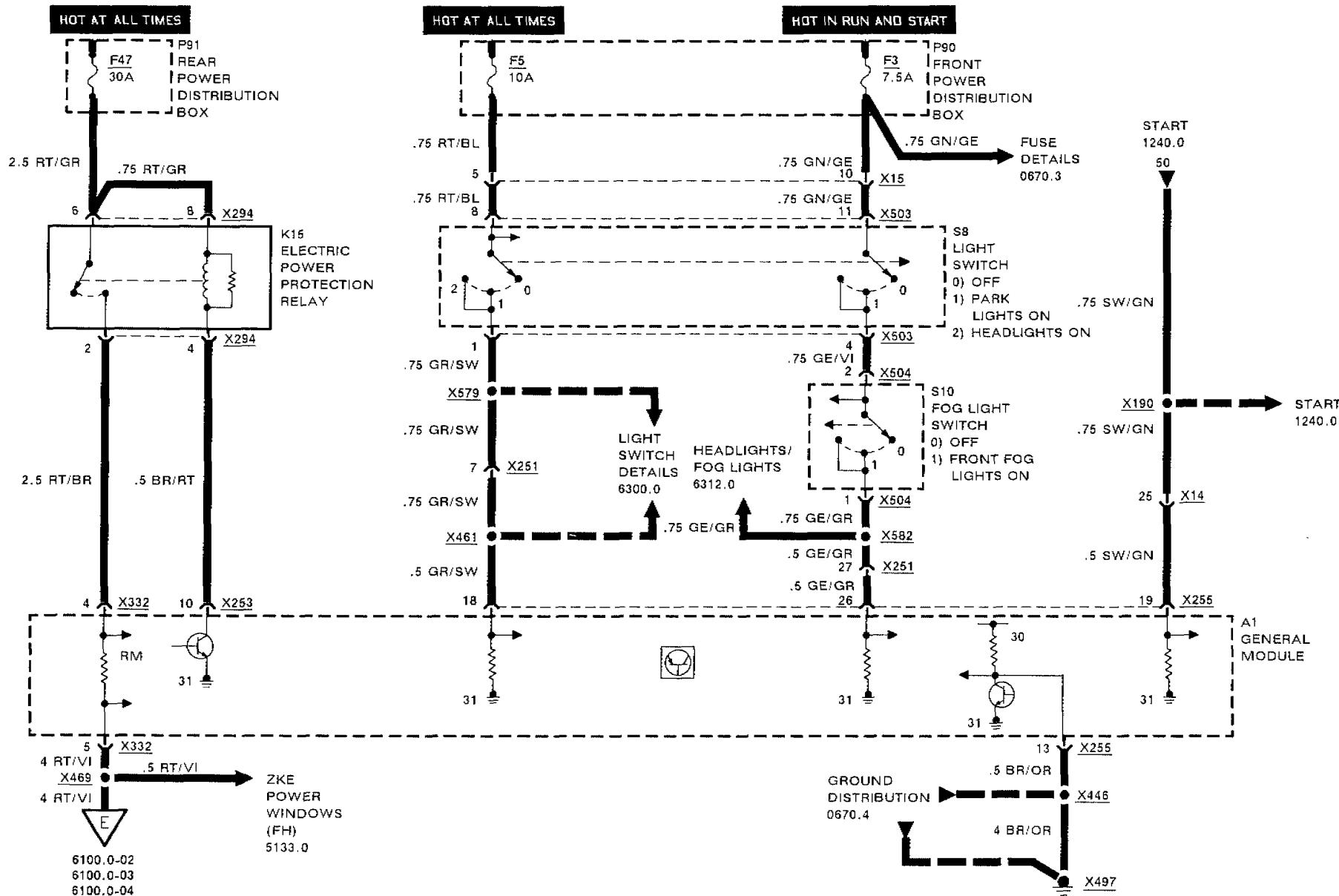




# CENTRAL BODY ELECTRONICS (ZKE) GENERAL MODULE

2/89

6100.0-01

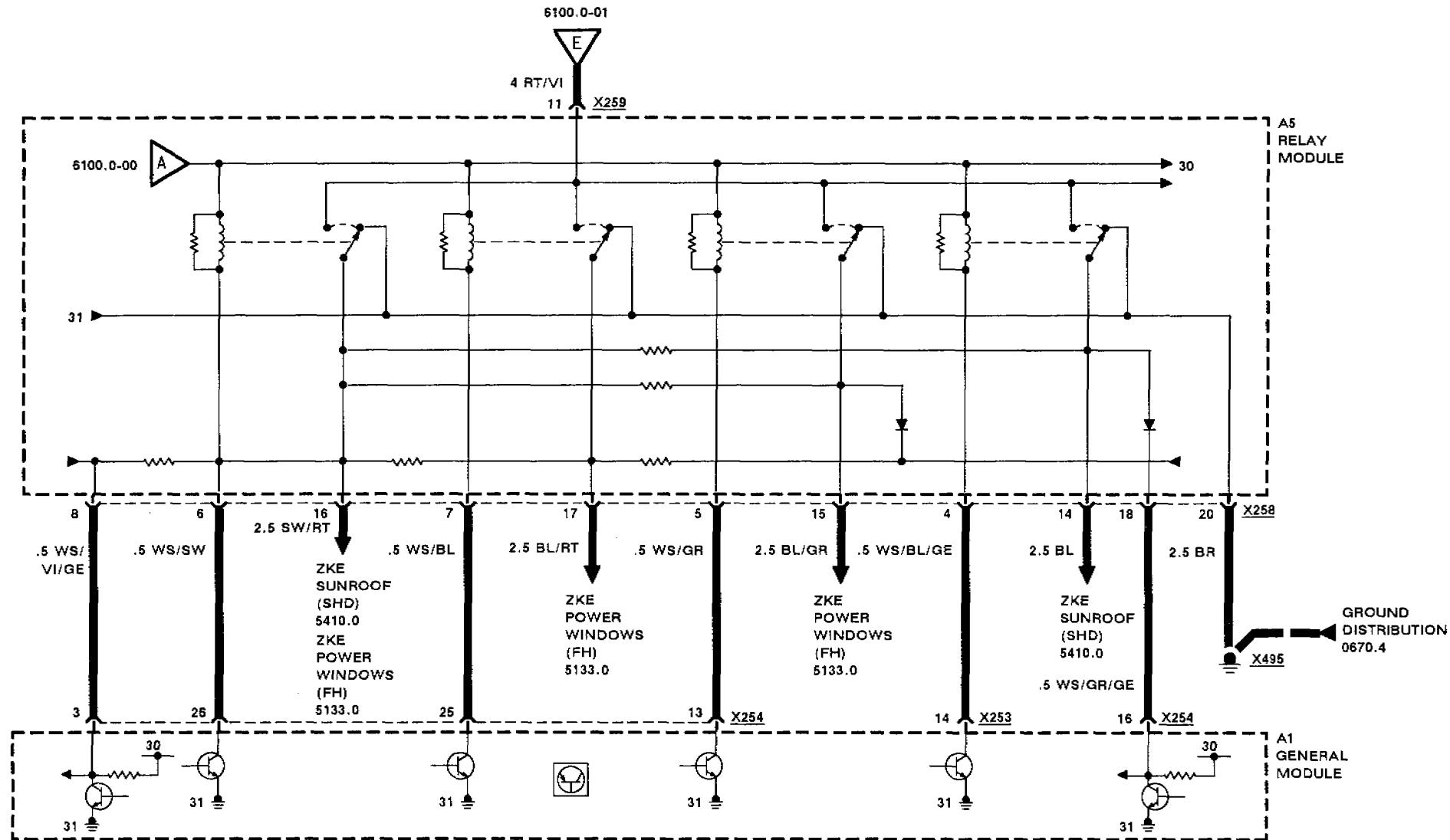




# CENTRAL BODY ELECTRONICS (ZKE)

## RELAY MODULE

2/89



6100.0-02

1989



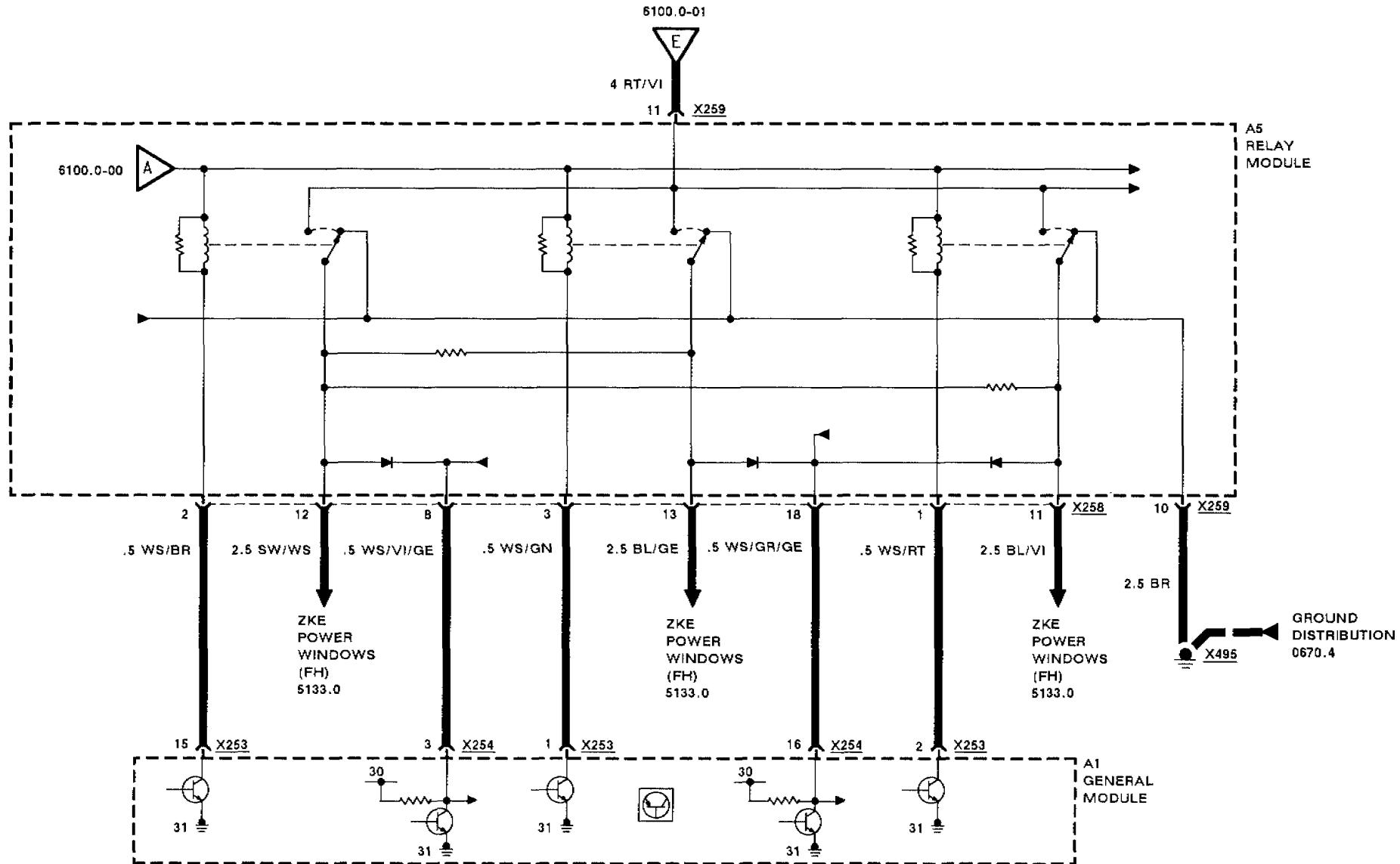
# CENTRAL BODY ELECTRONICS (ZKE)

## RELAY MODULE

2/89

6100.0-03

1989

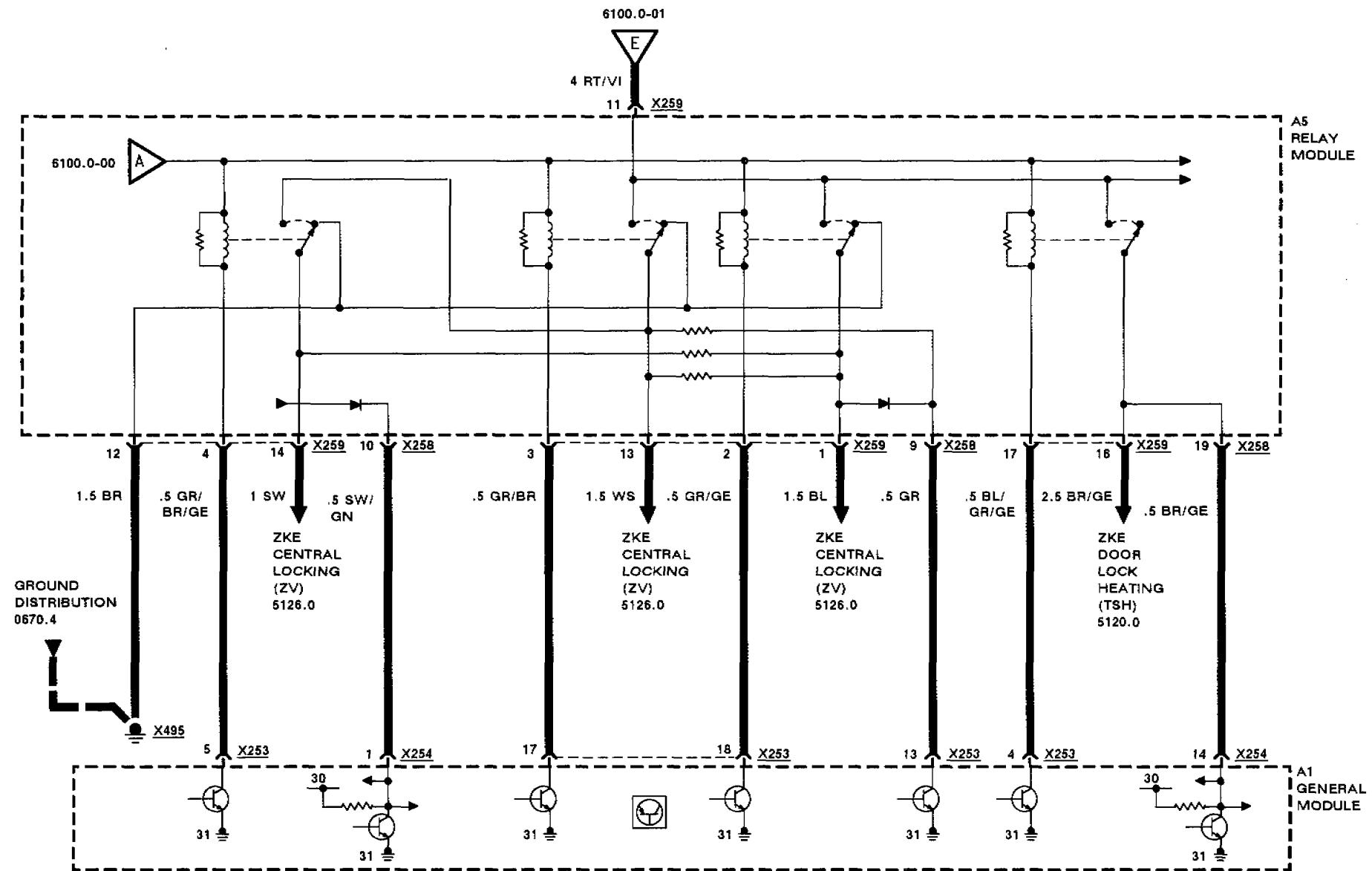




# CENTRAL BODY ELECTRONICS (ZKE)

## RELAY MODULE

2/89



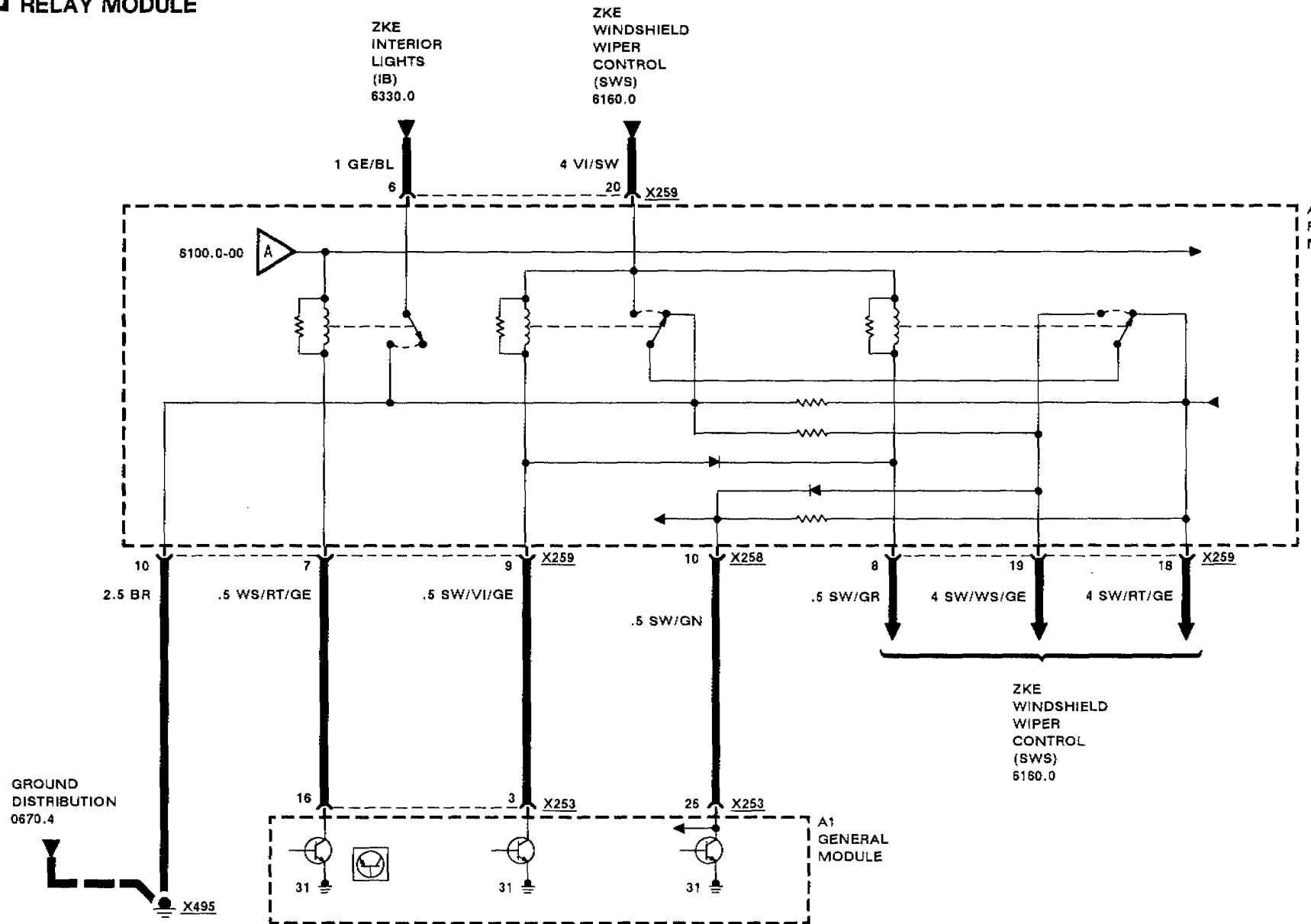
6100.0-04

1989



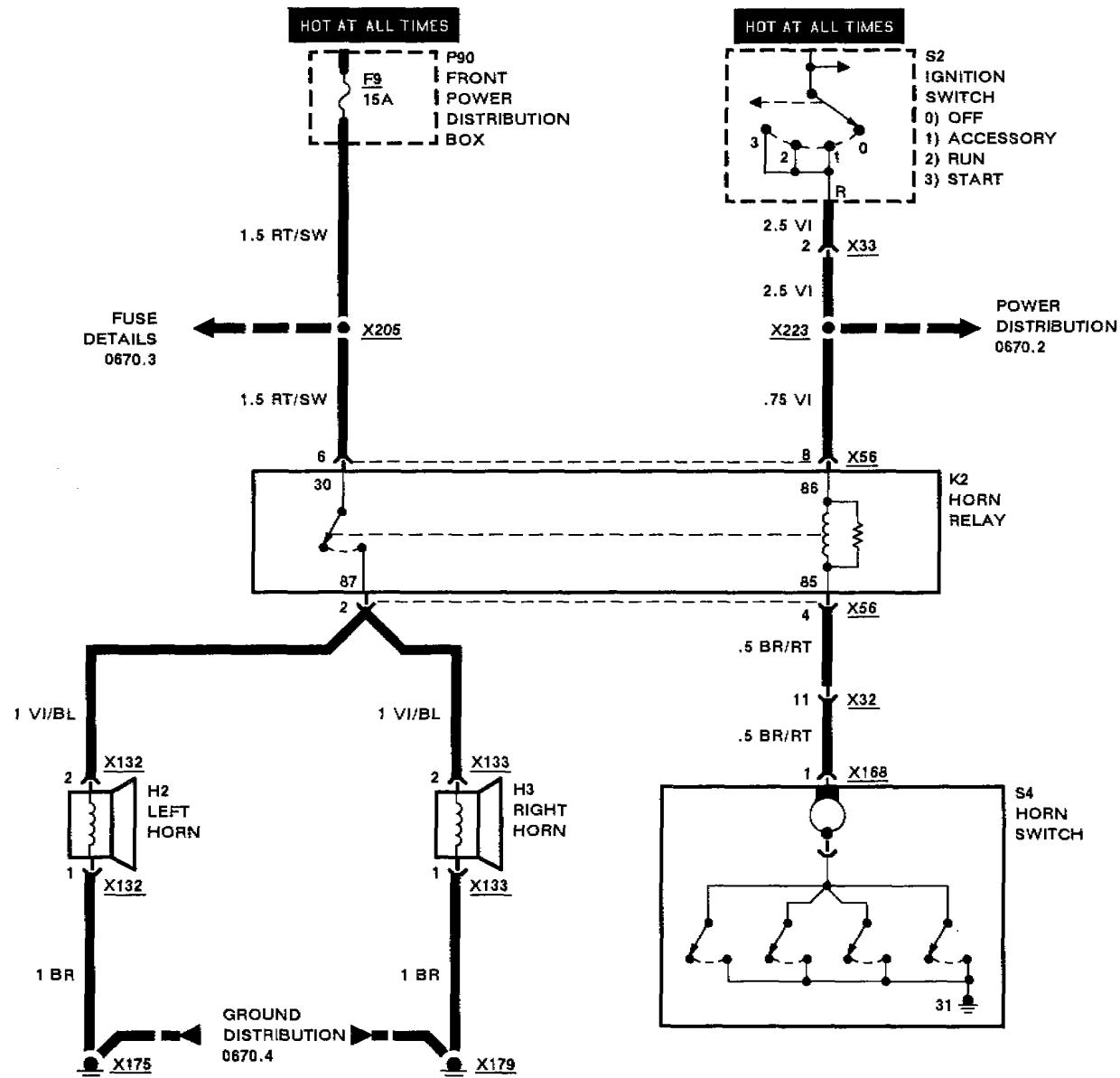
# CENTRAL BODY ELECTRONICS (ZKE) RELAY MODULE

2/89

A5  
RELAY  
MODULE

6100.0-05

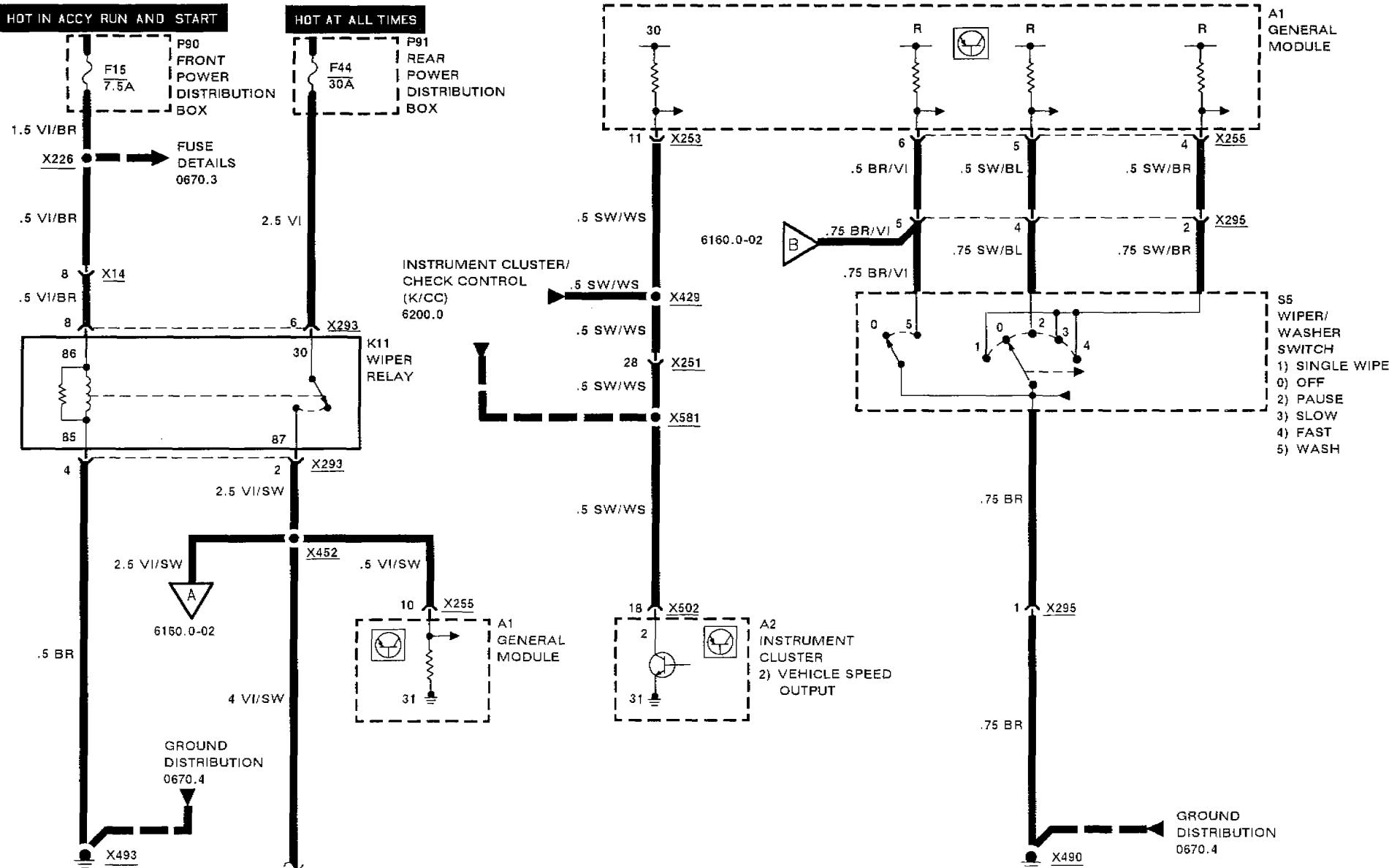
1989



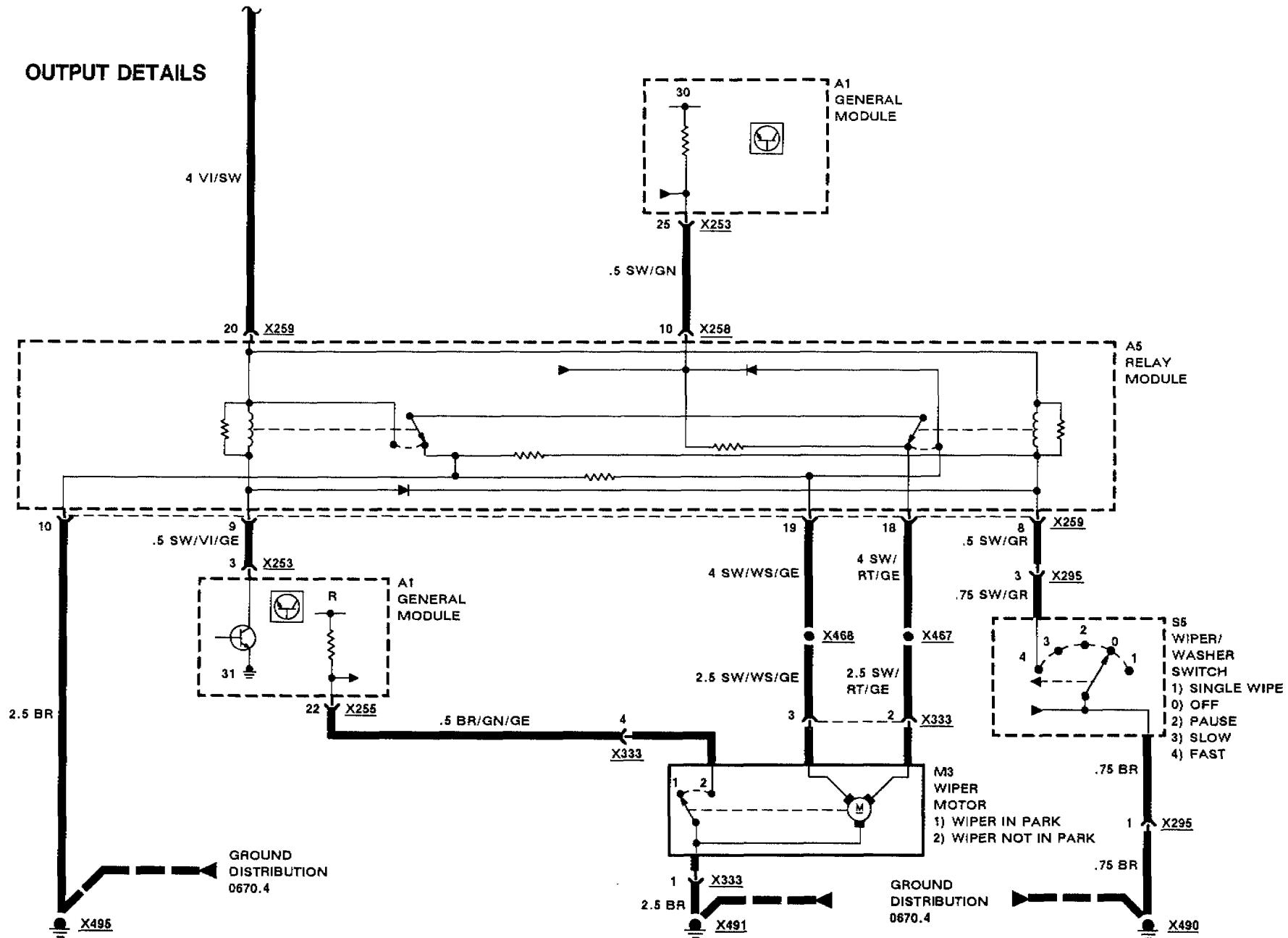


# ZKE WINDSHIELD WIPER CONTROL (SWS)

## INPUT DETAILS



## OUTPUT DETAILS





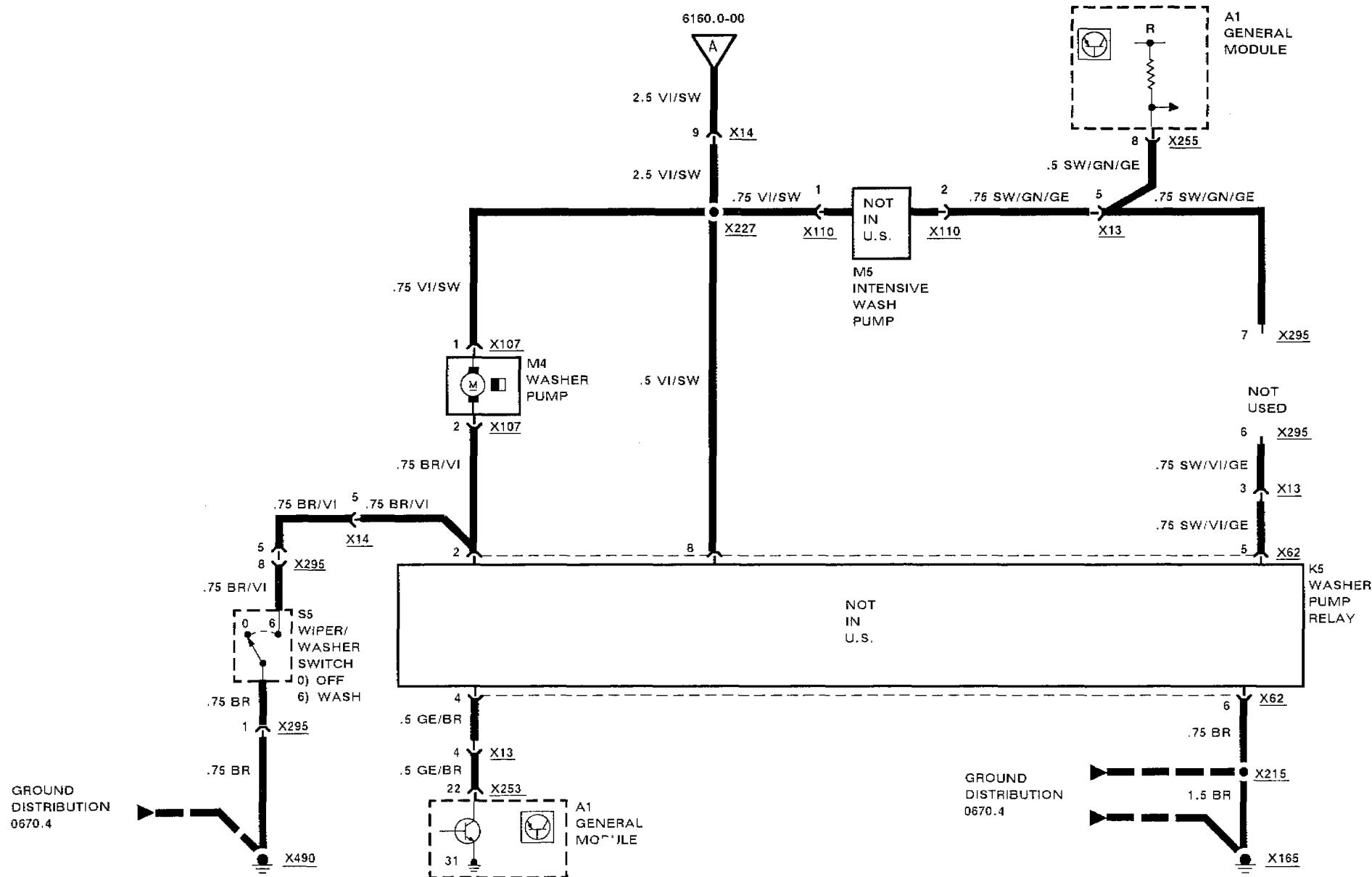
## ZKE WINDSHIELD WIPER CONTROL (SWS)

### OUTPUT DETAILS

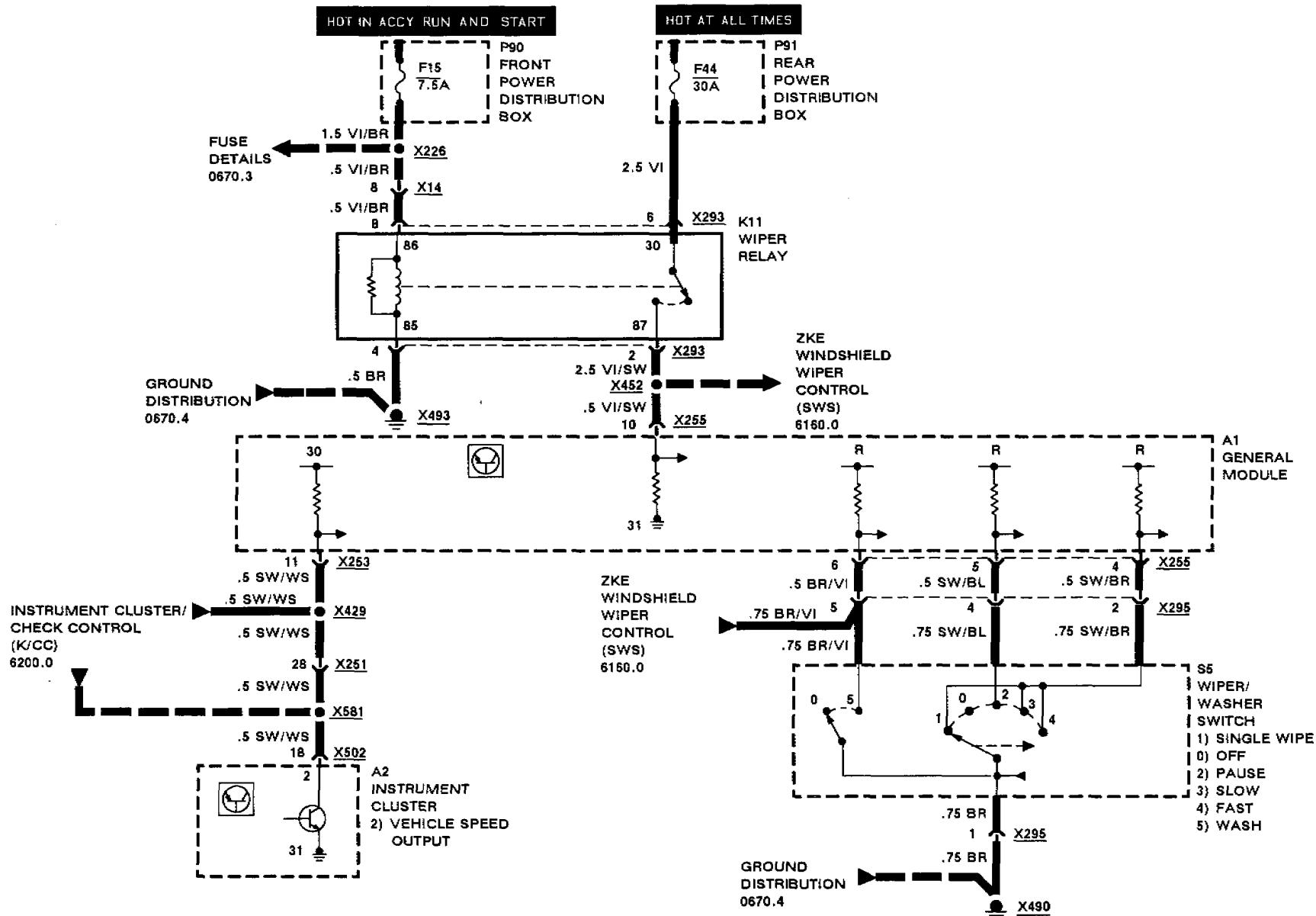
2/89

6160.0-02

1989



## **INPUT DETAILS**

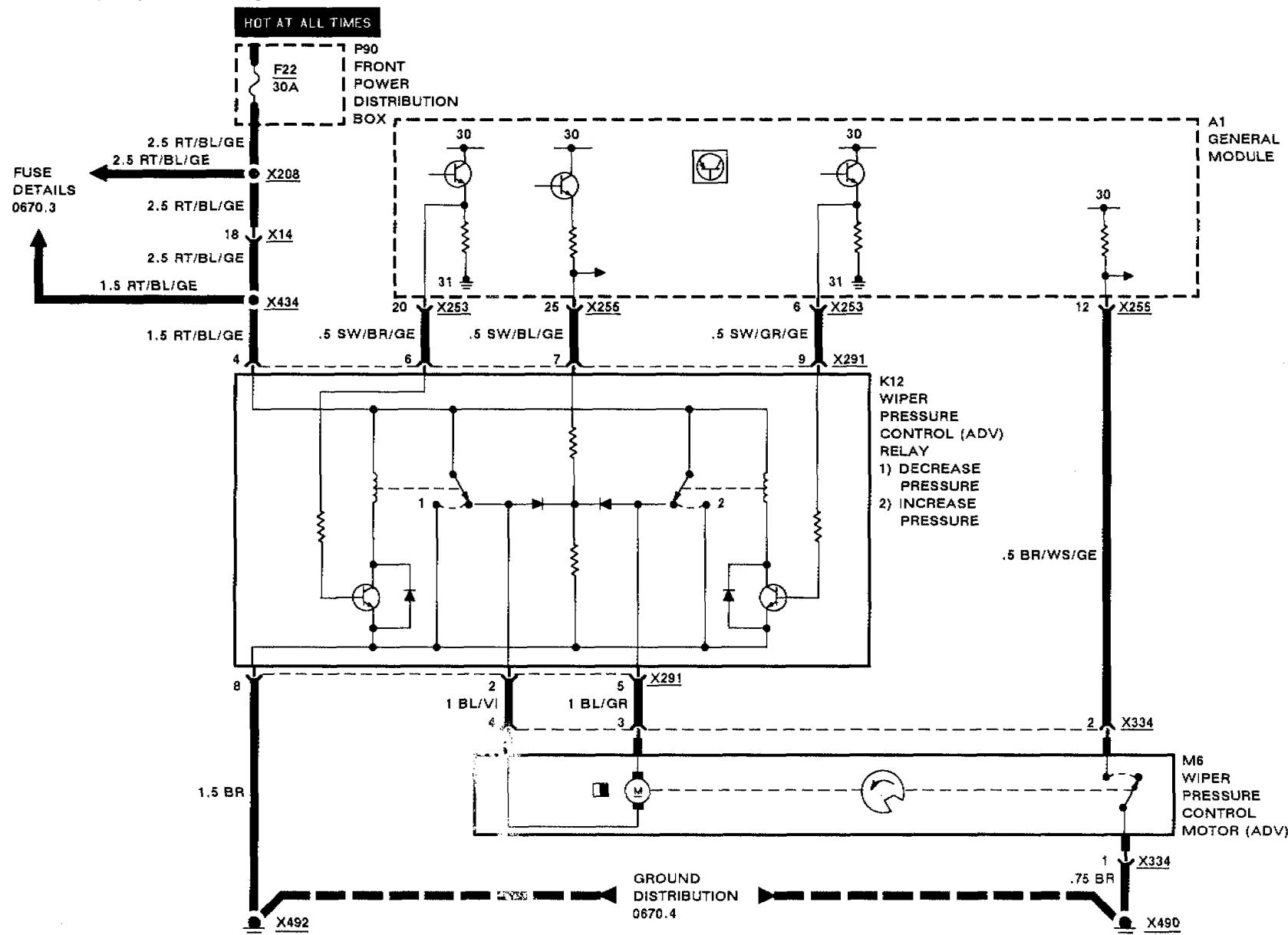




## ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)

535i

### OUTPUT DETAILS

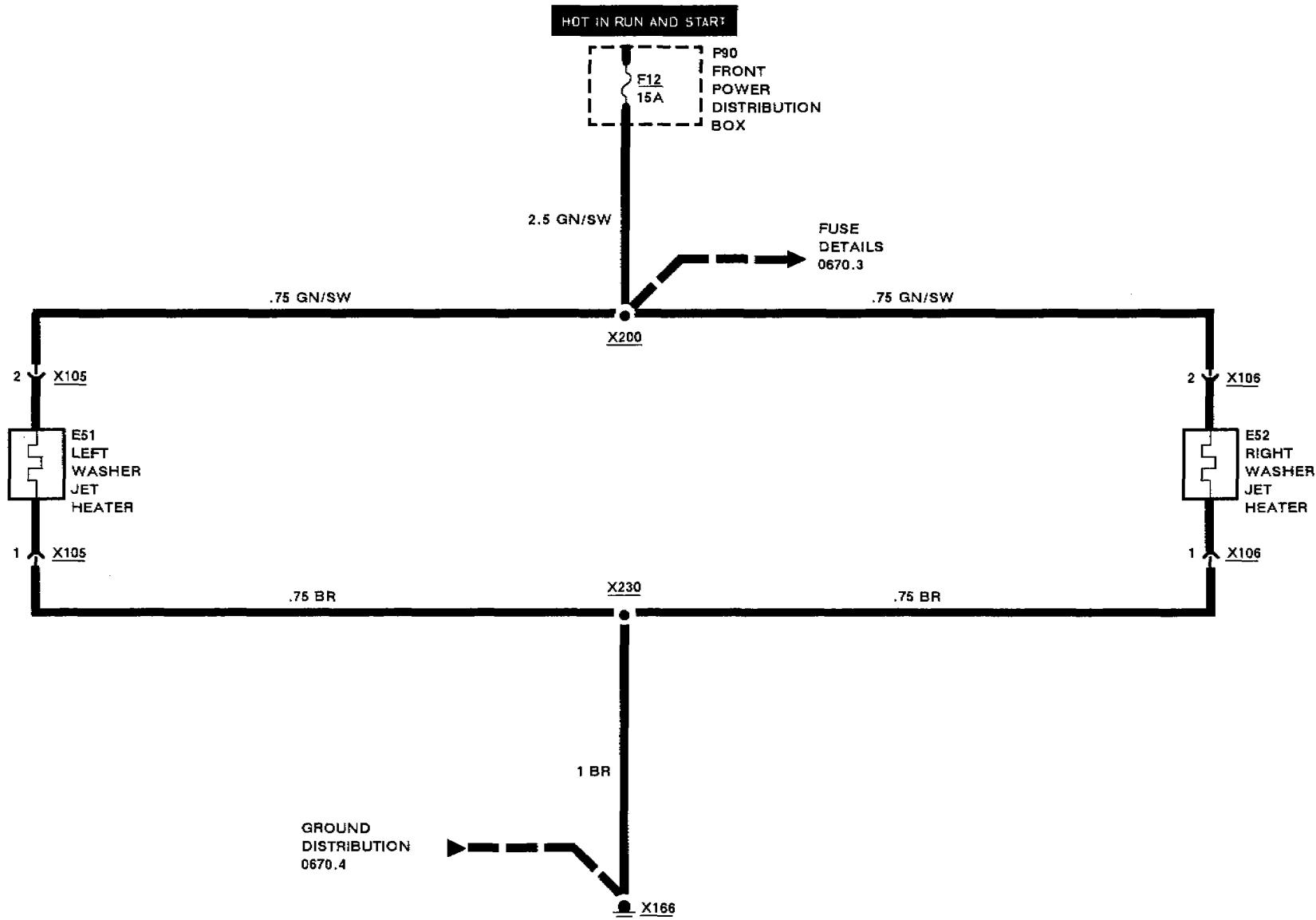




## WINDSHIELD WASHER JET HEATERS

535i

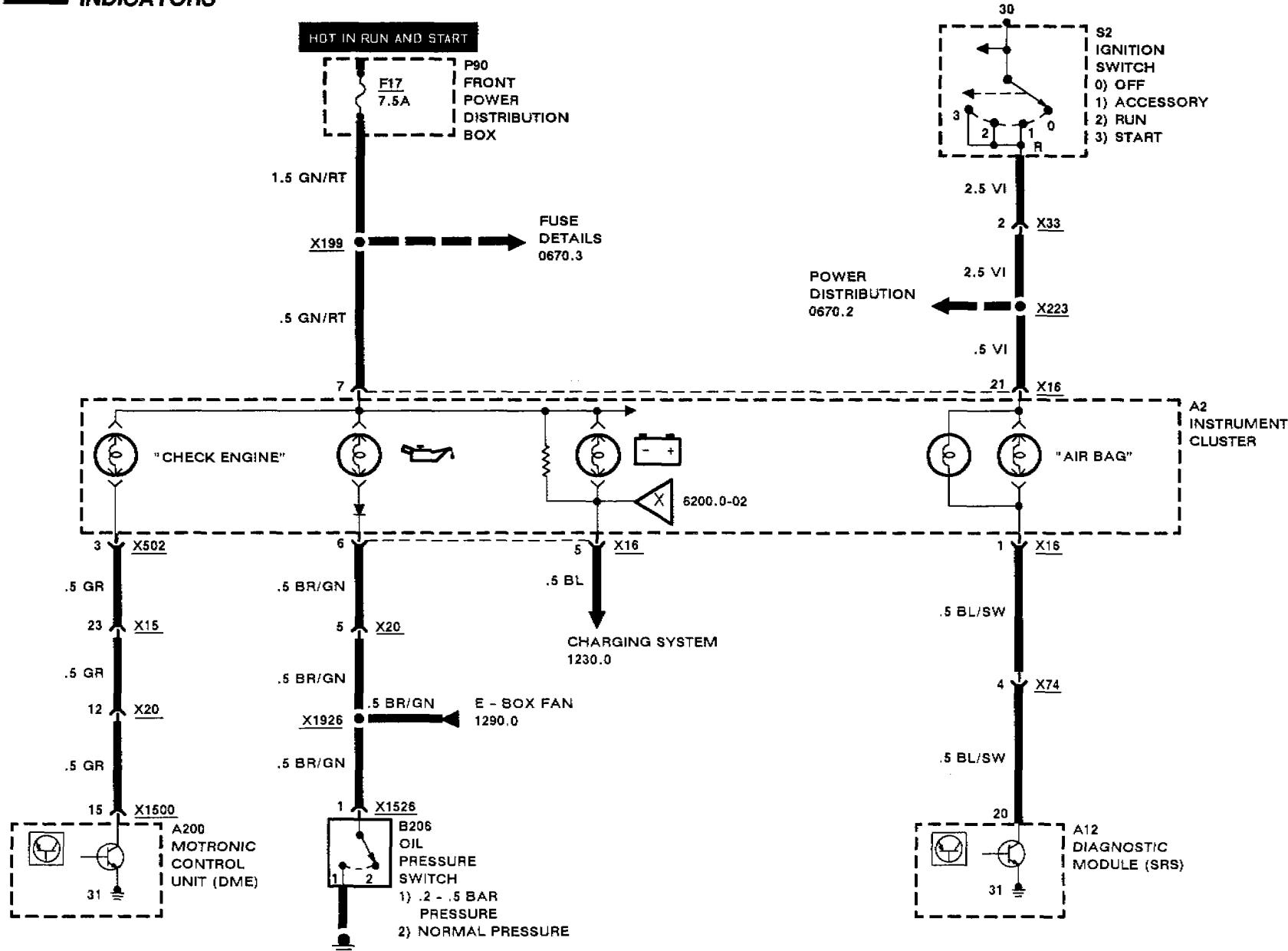
2/89





# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

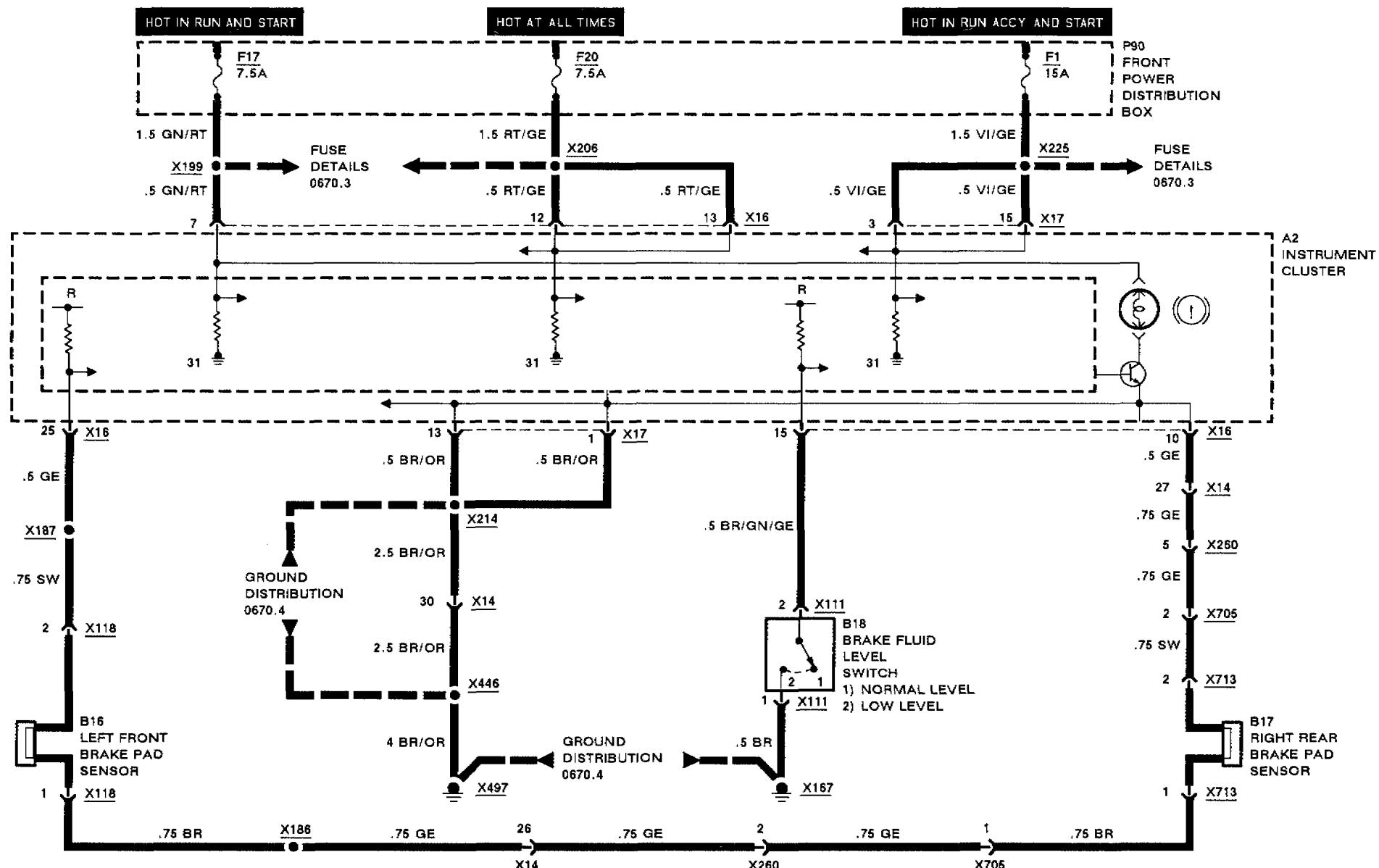
## INDICATORS





## INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

### INDICATORS





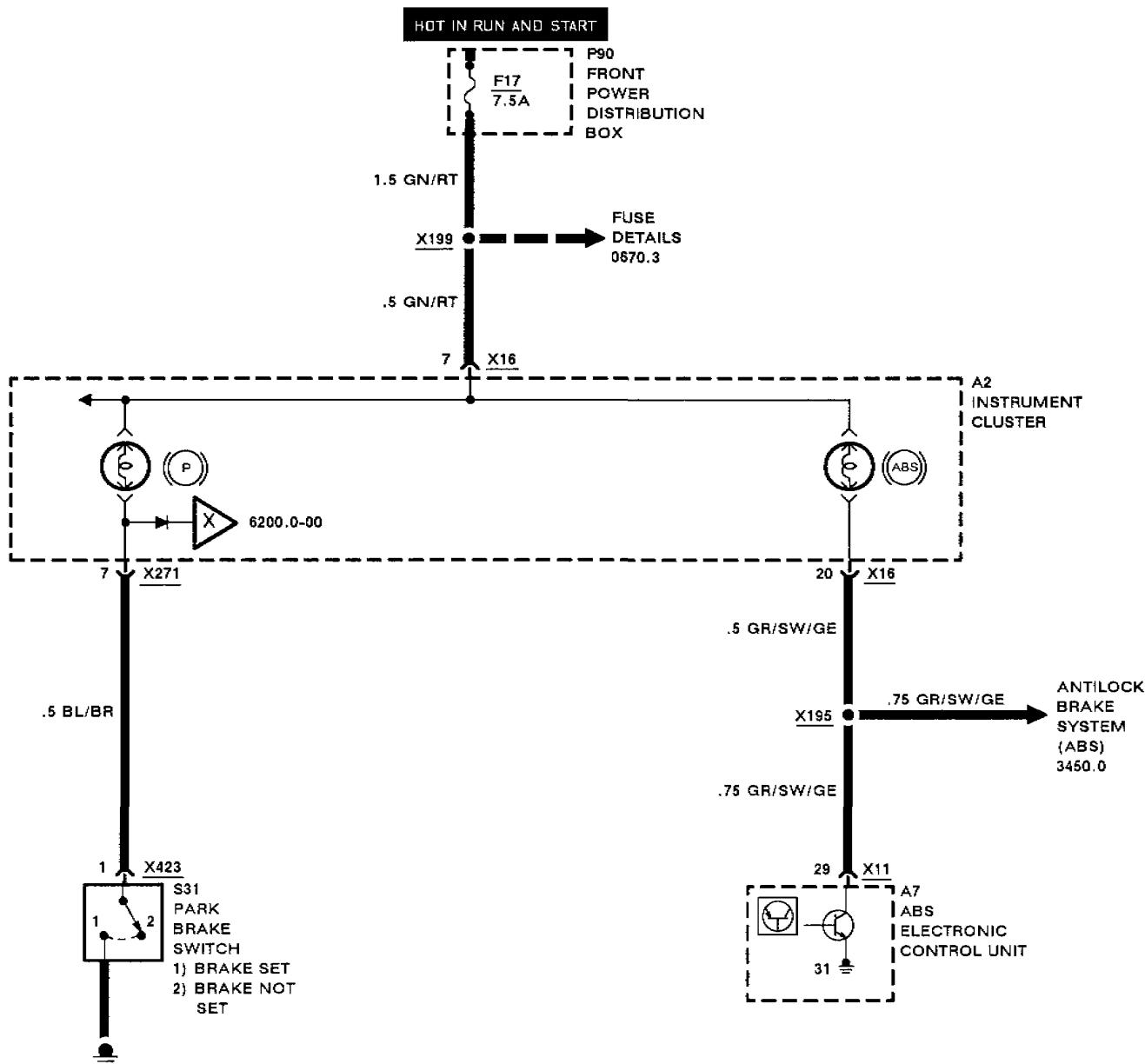
## INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

### INDICATORS

2/89

6200.0-02

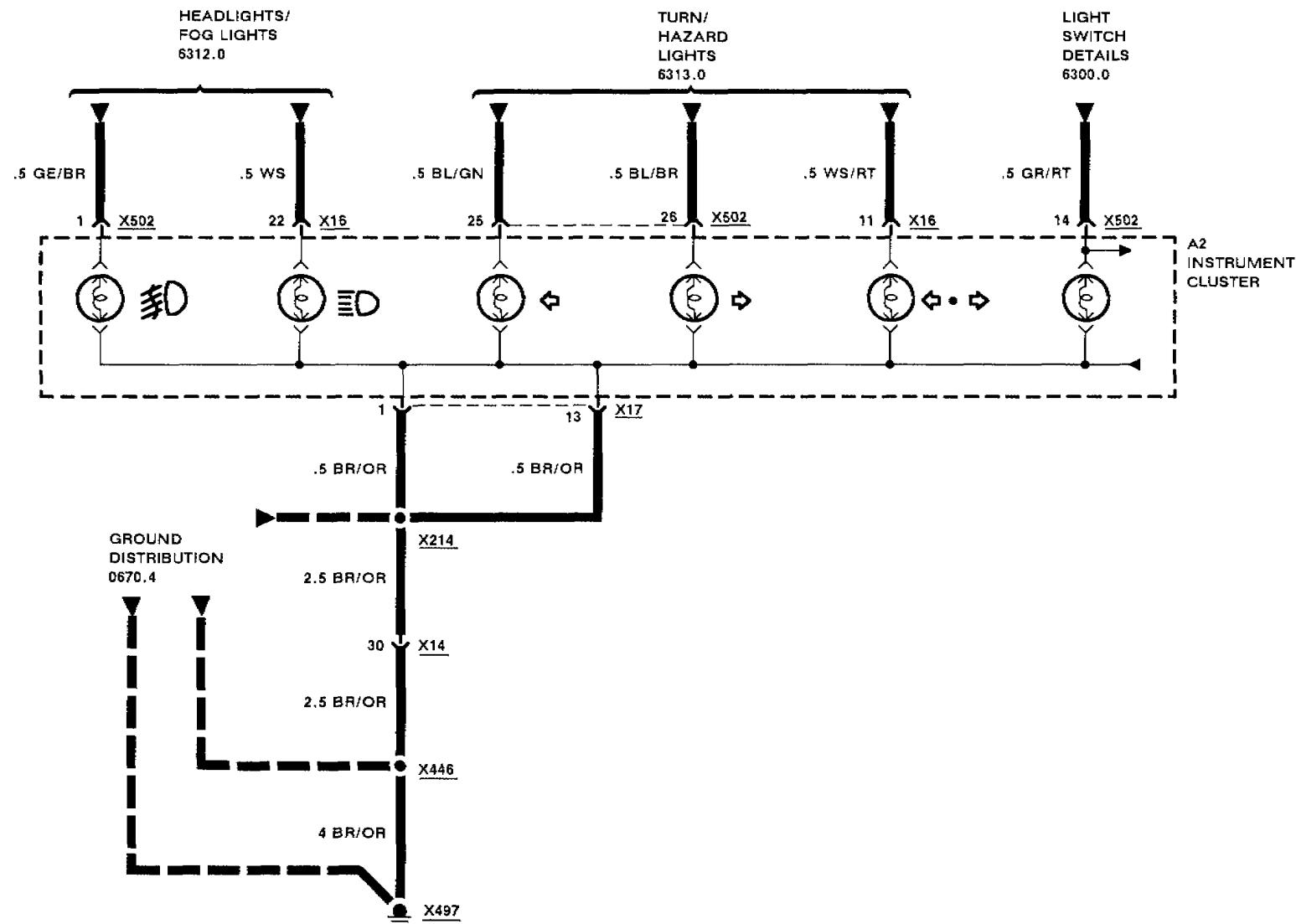
1989





## INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

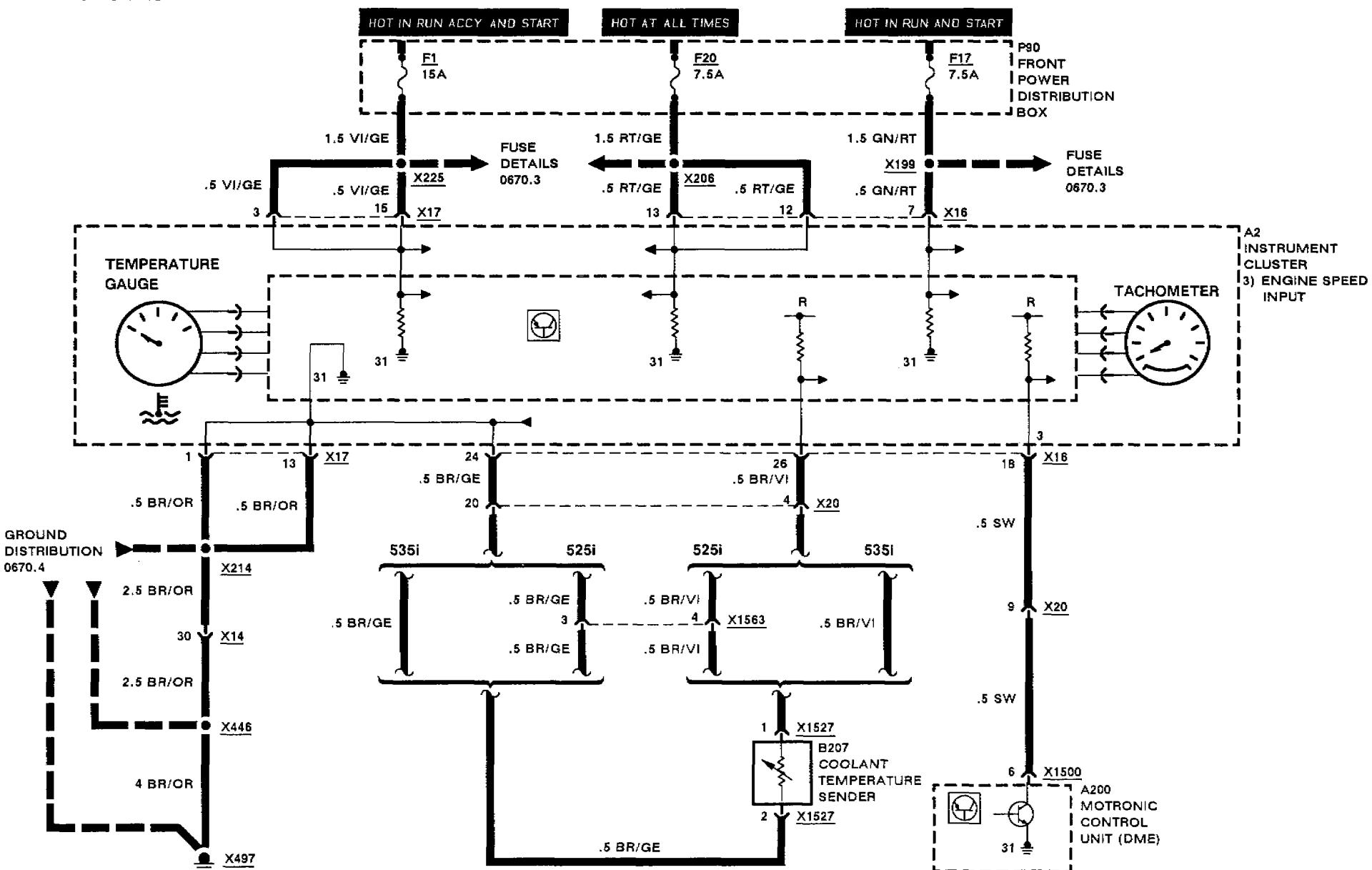
### INDICATORS



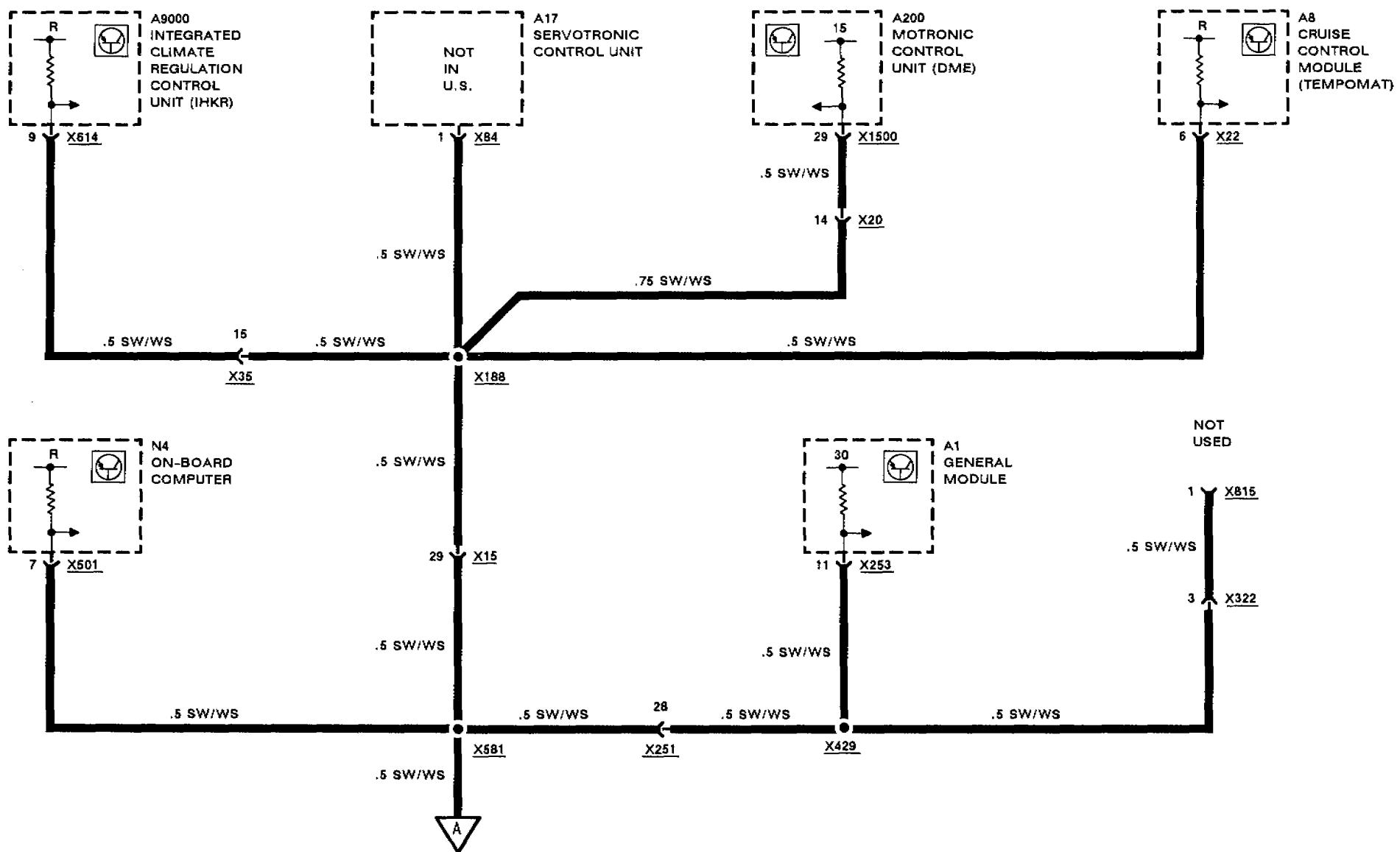


# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

## GAUGES



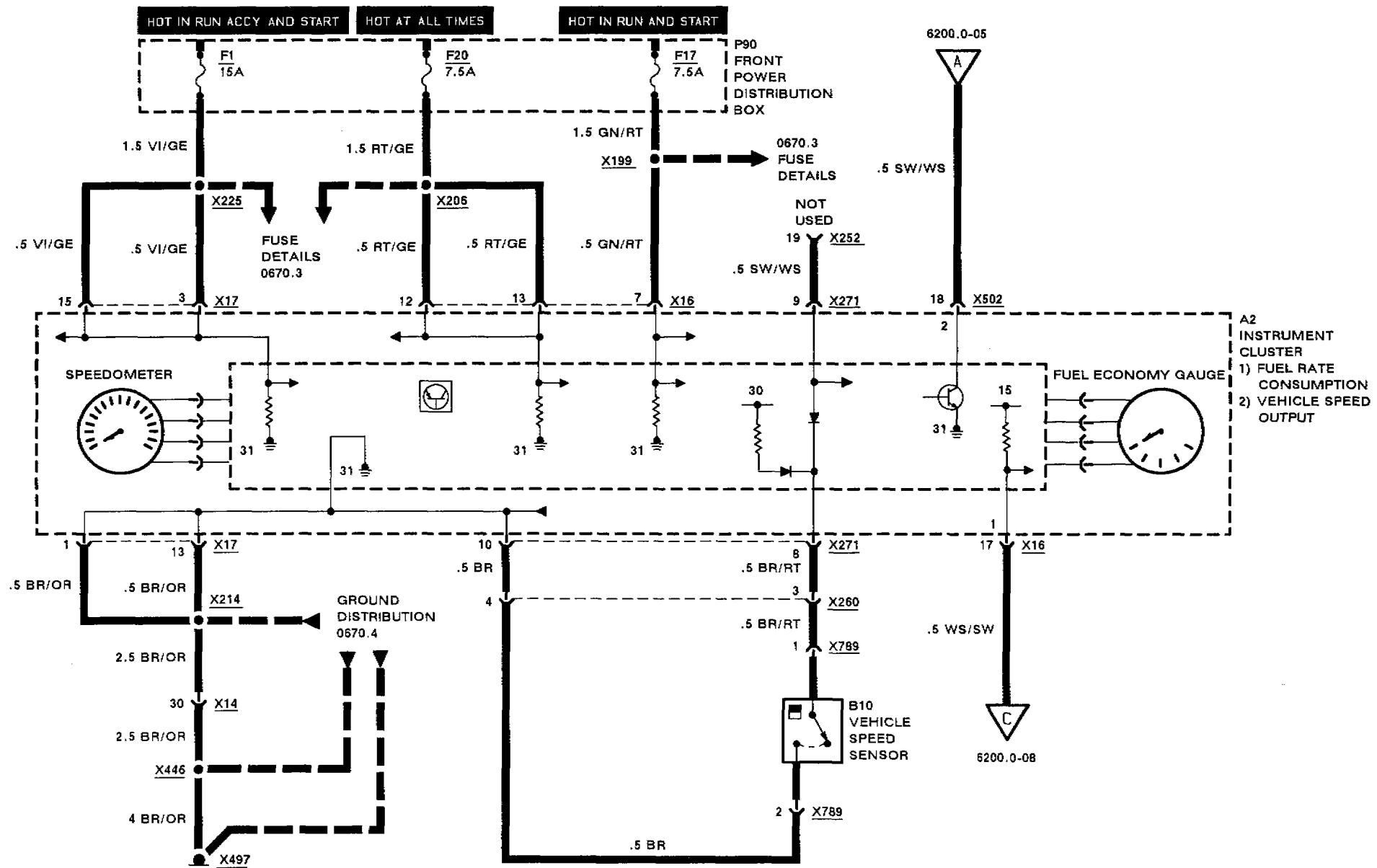
## INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)





# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

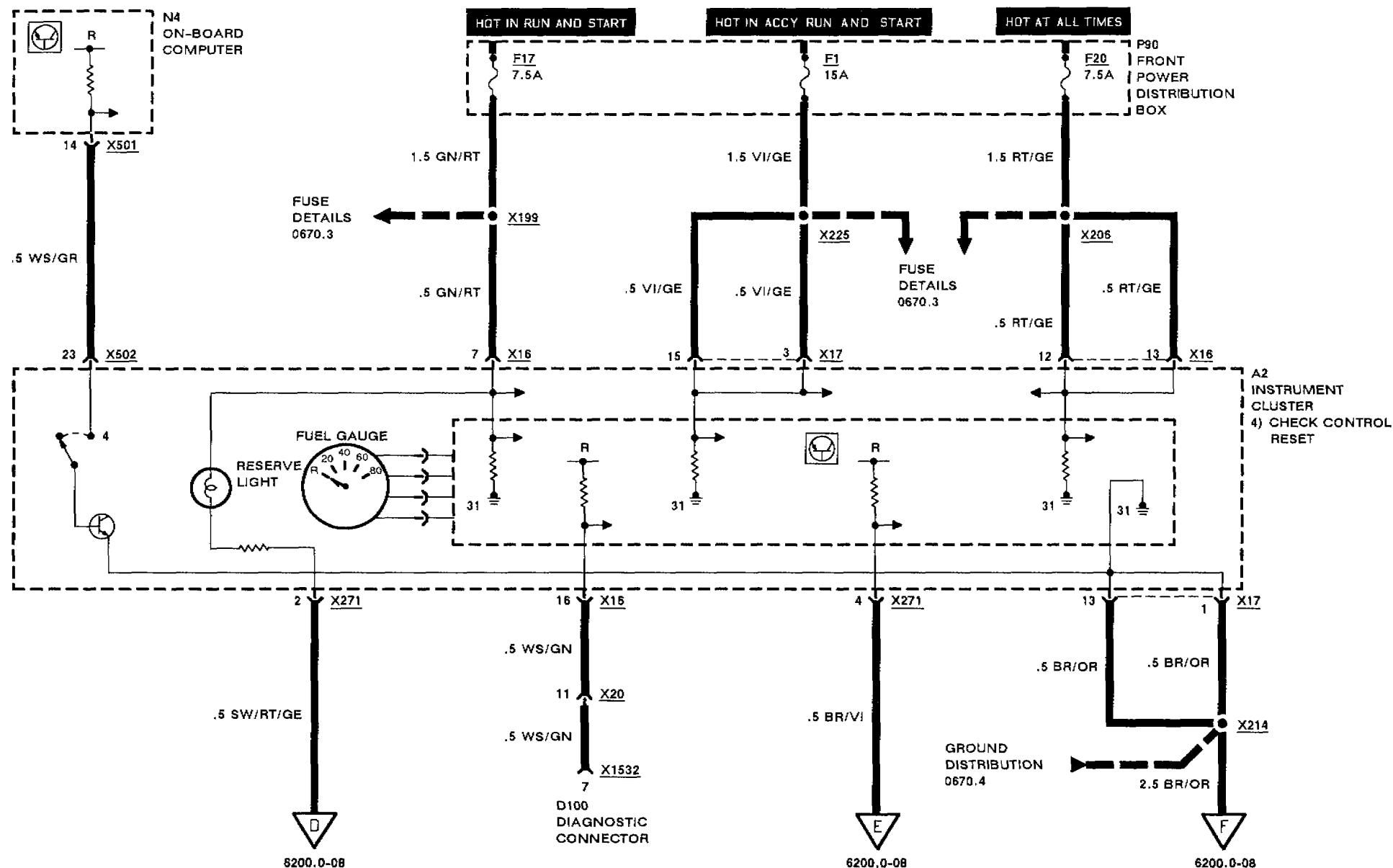
## GAUGES





# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

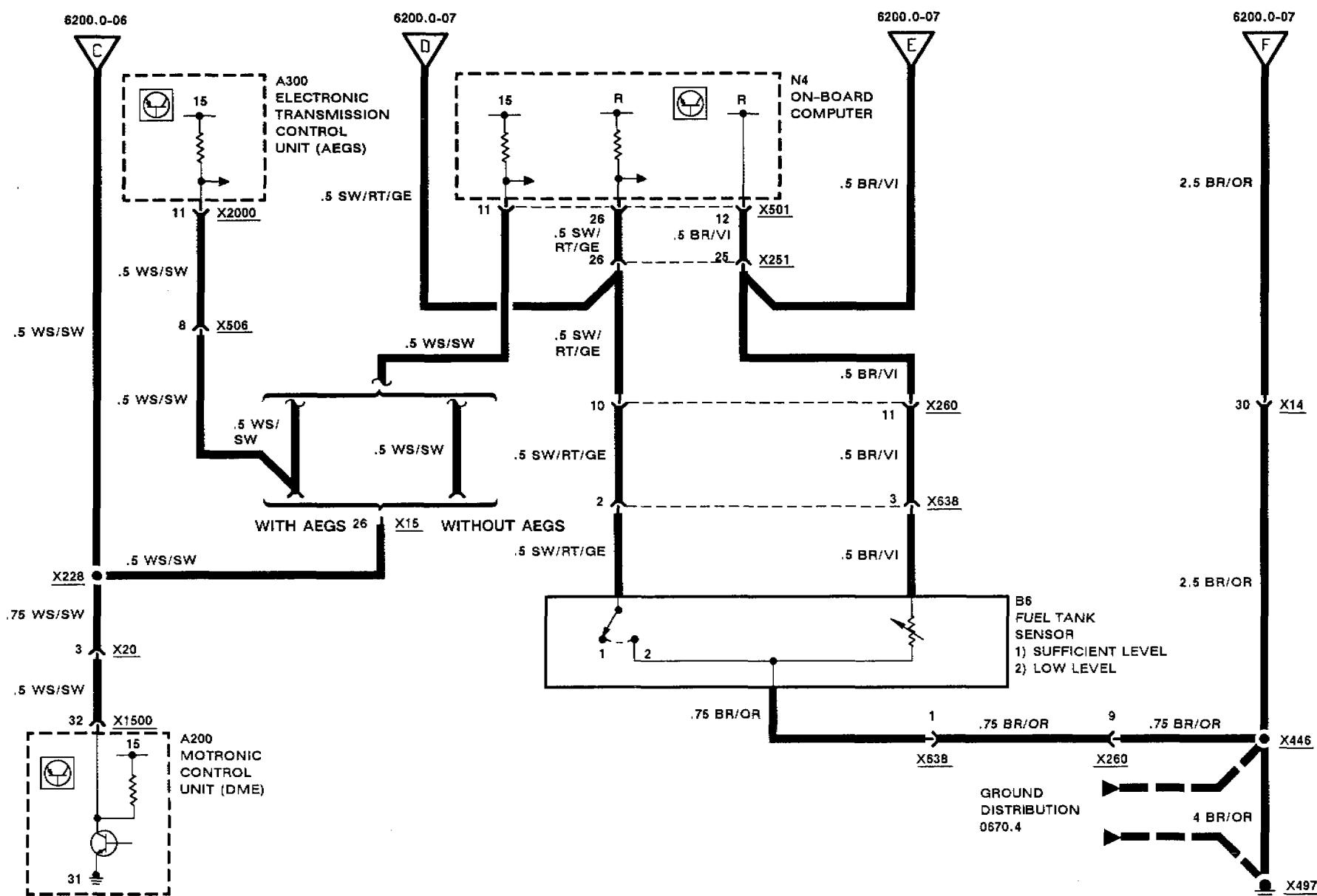
## GAUGES





# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

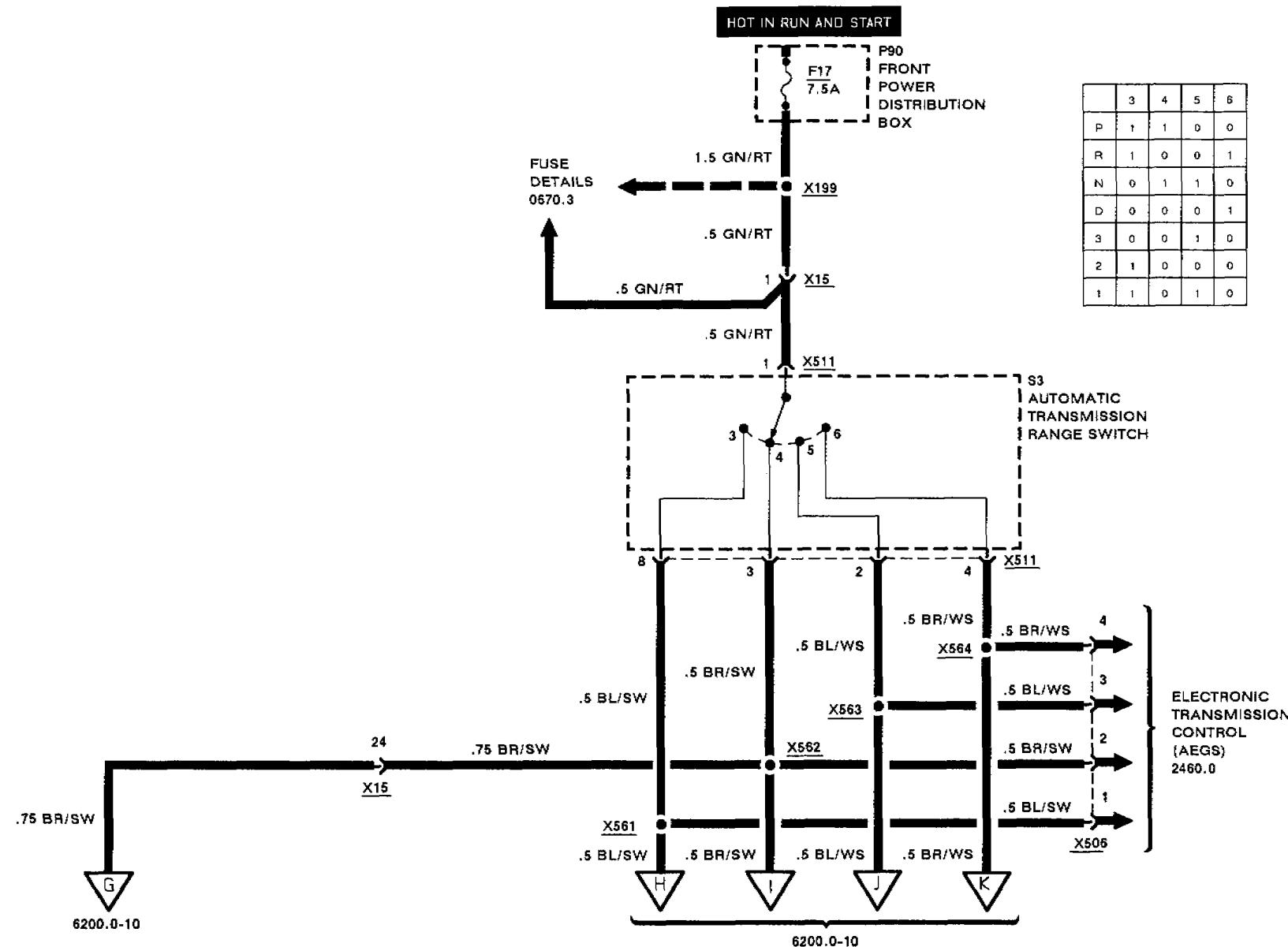
## GAUGES





## INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

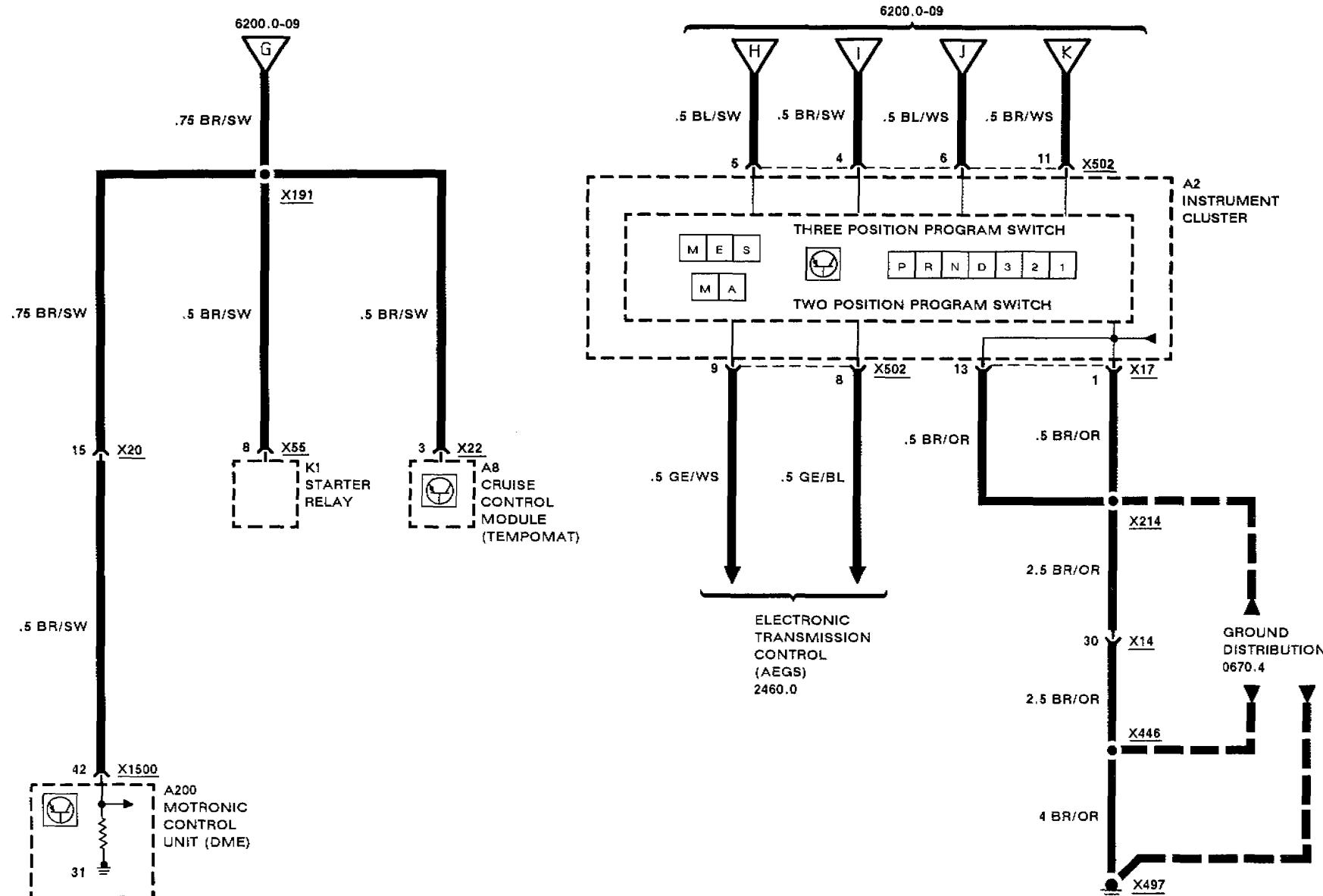
### GEAR SELECTOR





## INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

2/89



6200.0-10

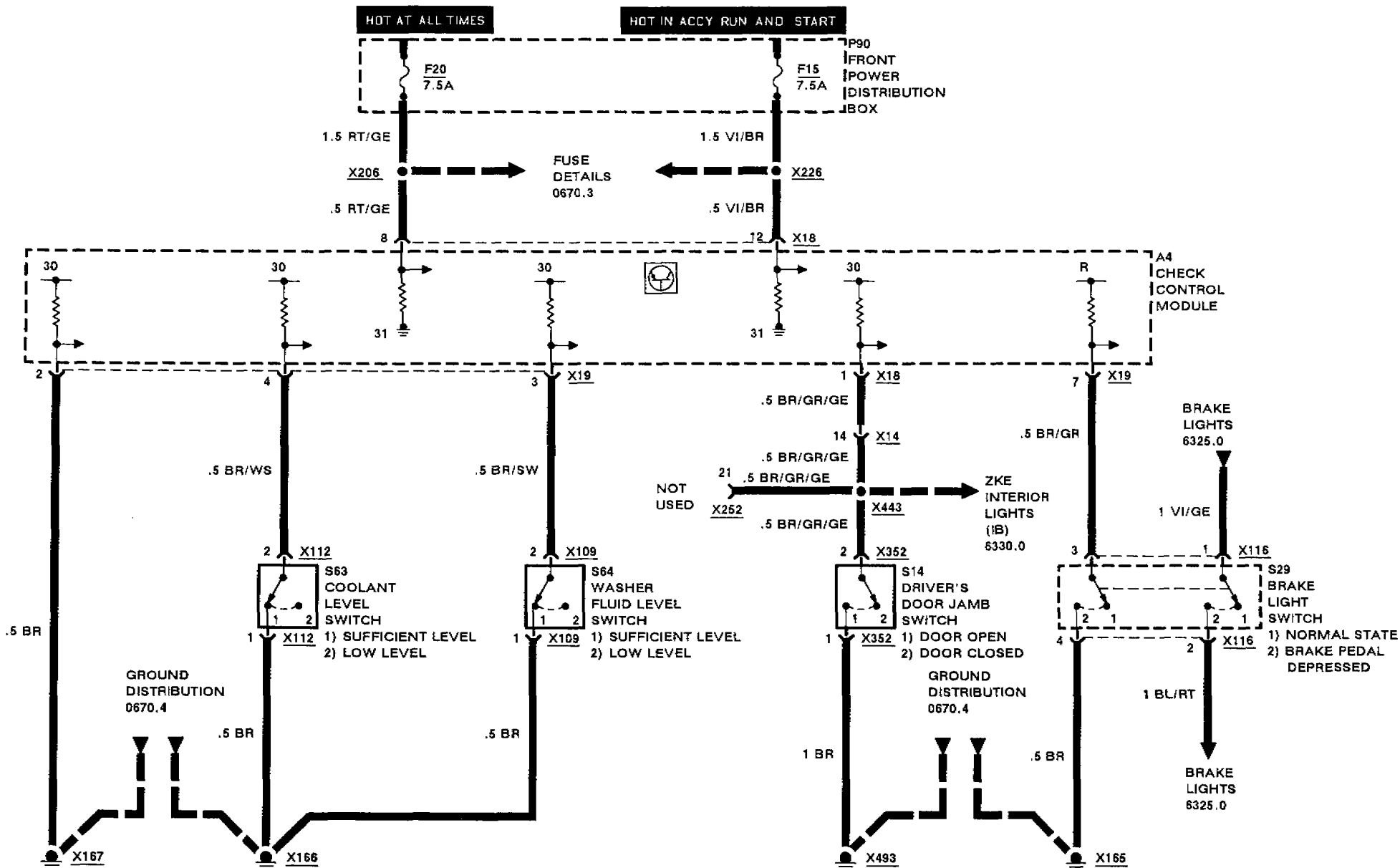
1989



# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

## CHECK CONTROL

2/89



6200.0-11

1989



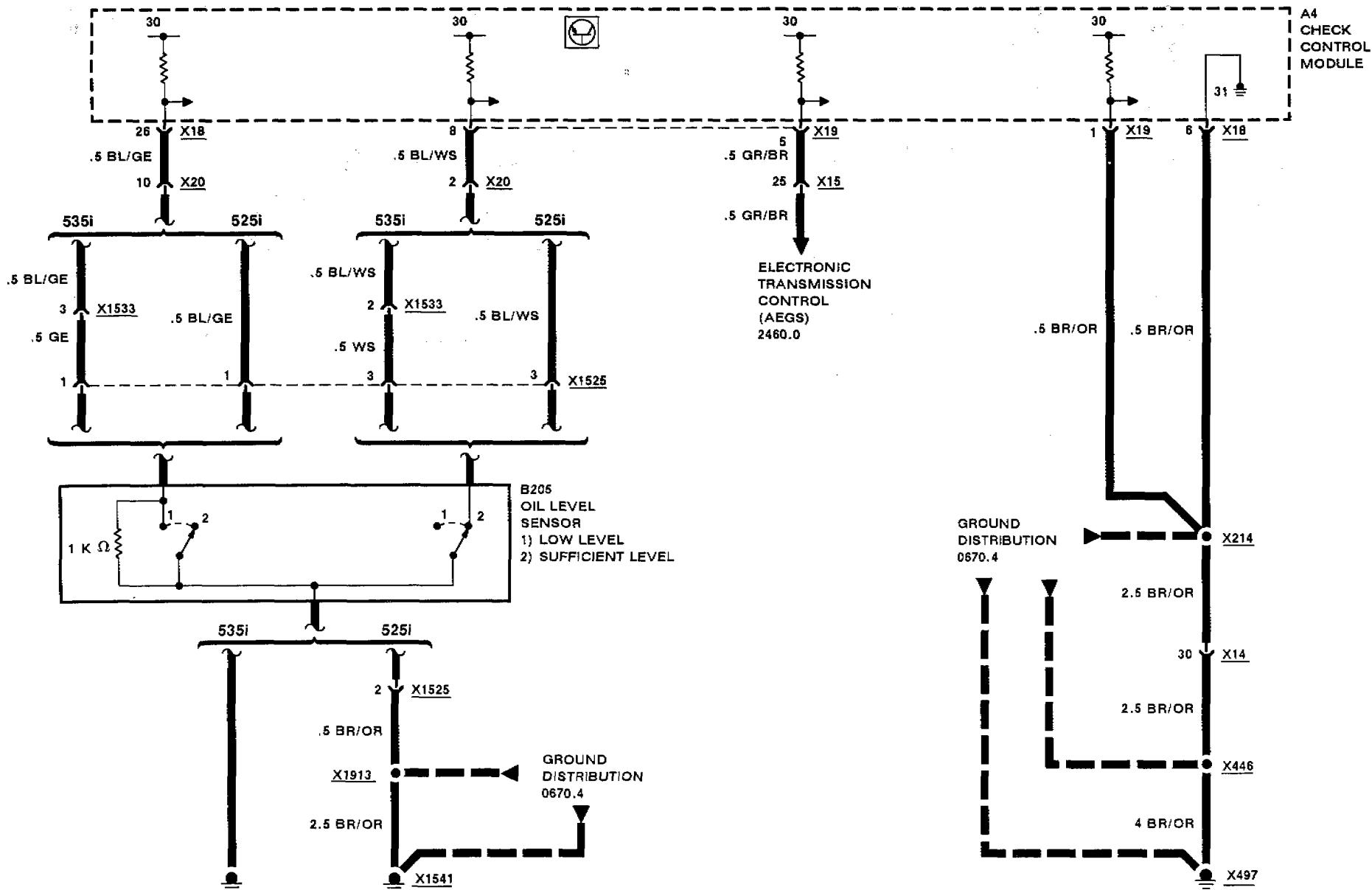
## **INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)**

## **CHECK CONTROL**

68/2

6200.0-12

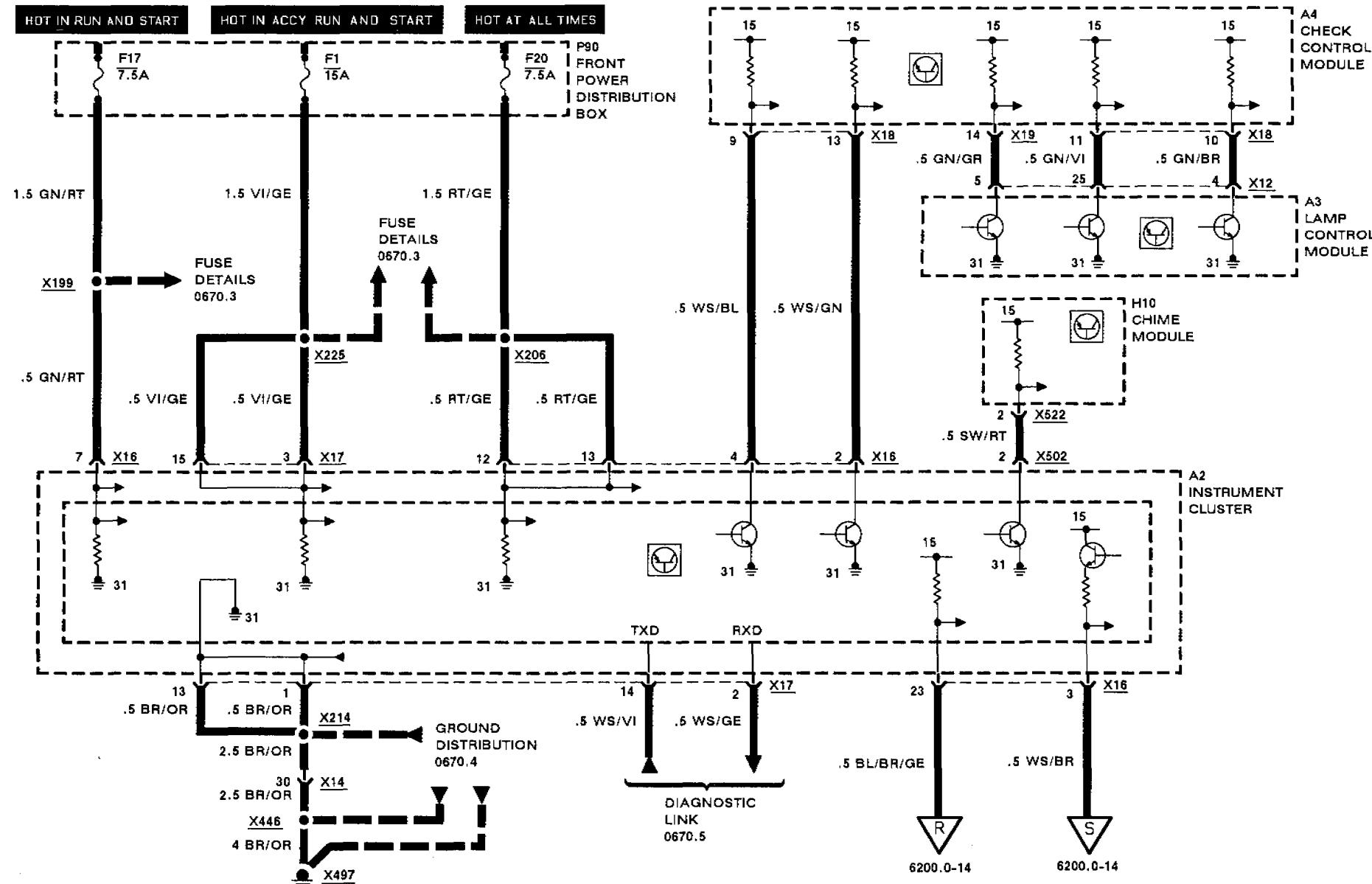
6861





# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

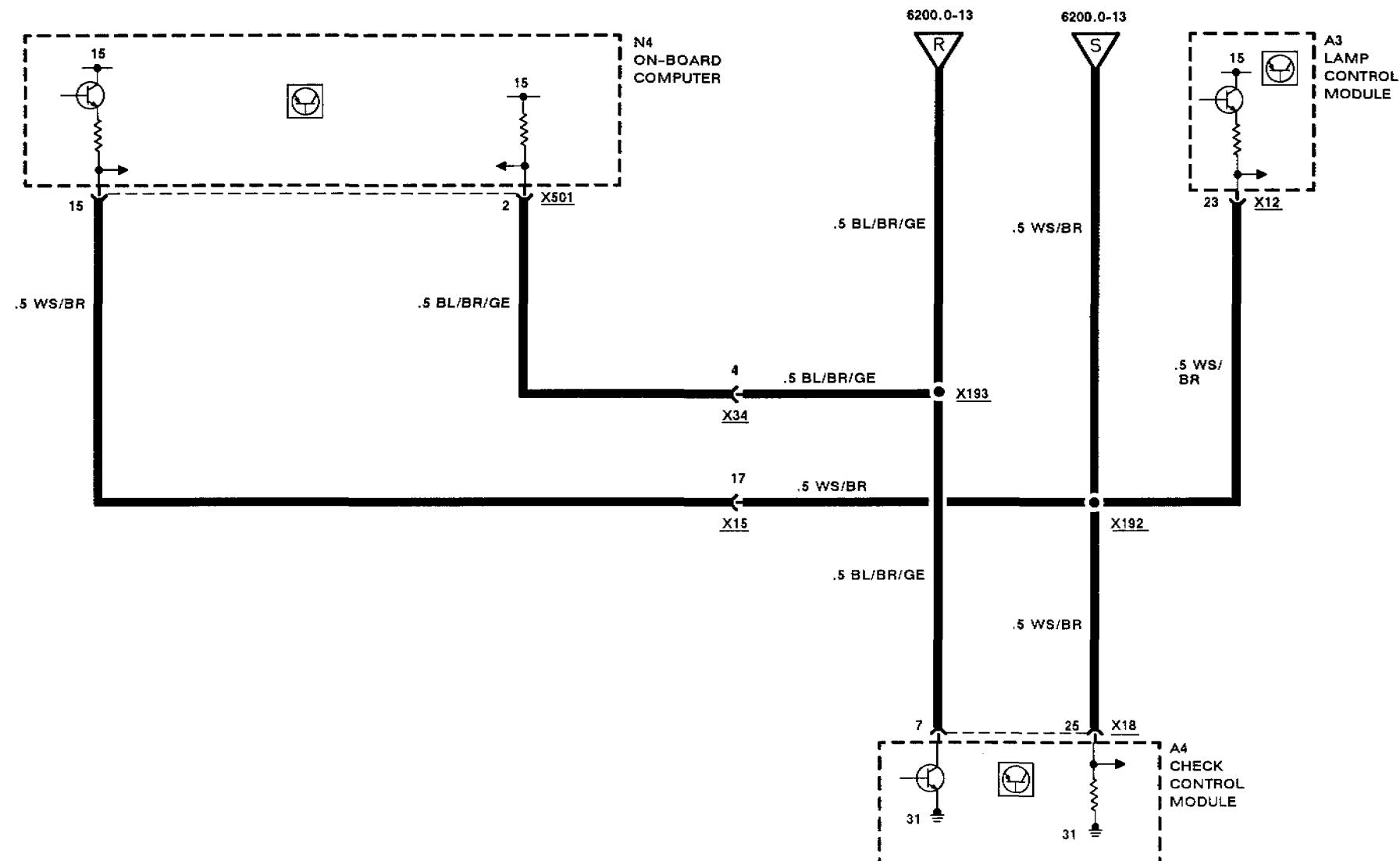
## DATA LINK

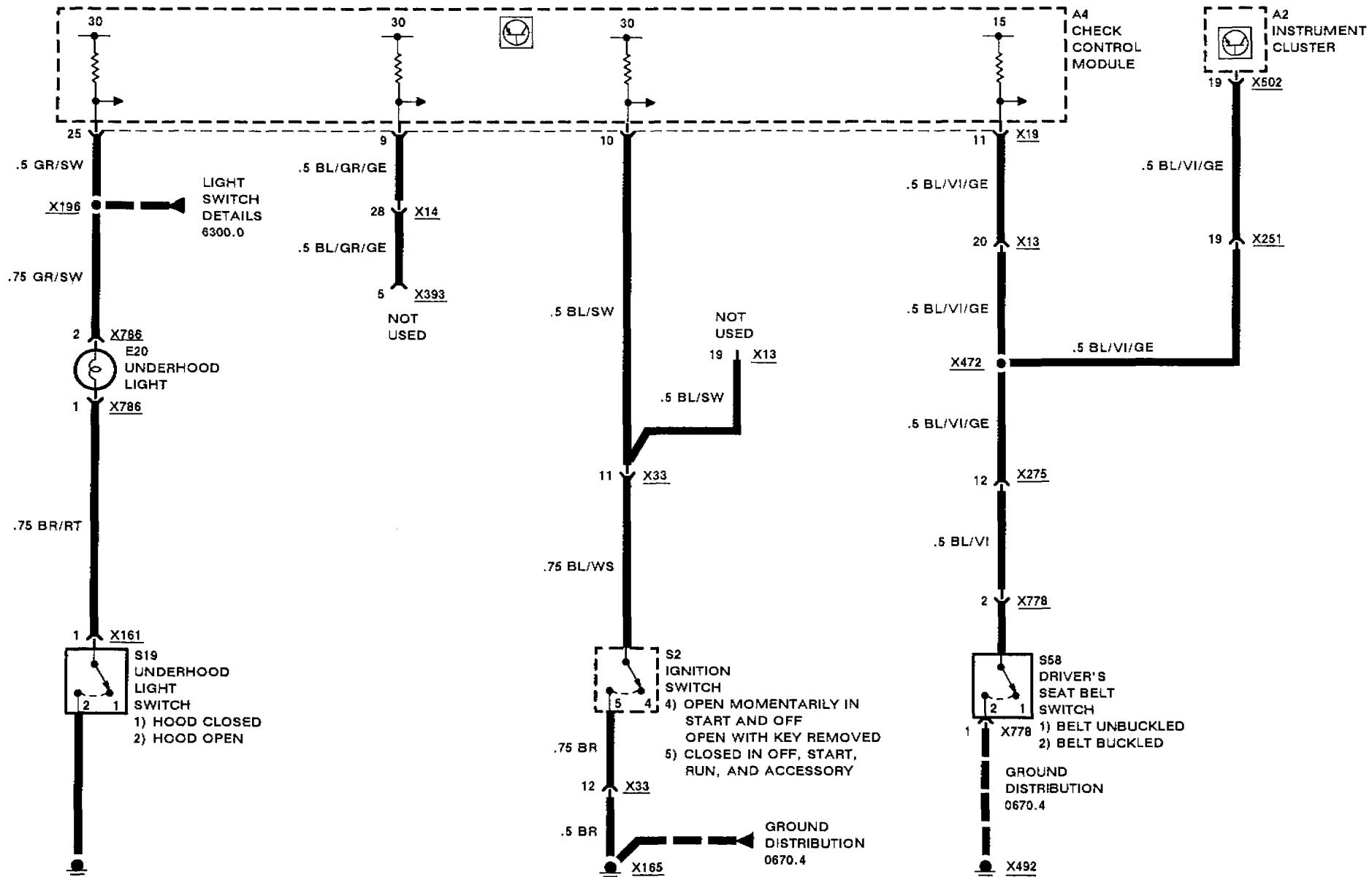


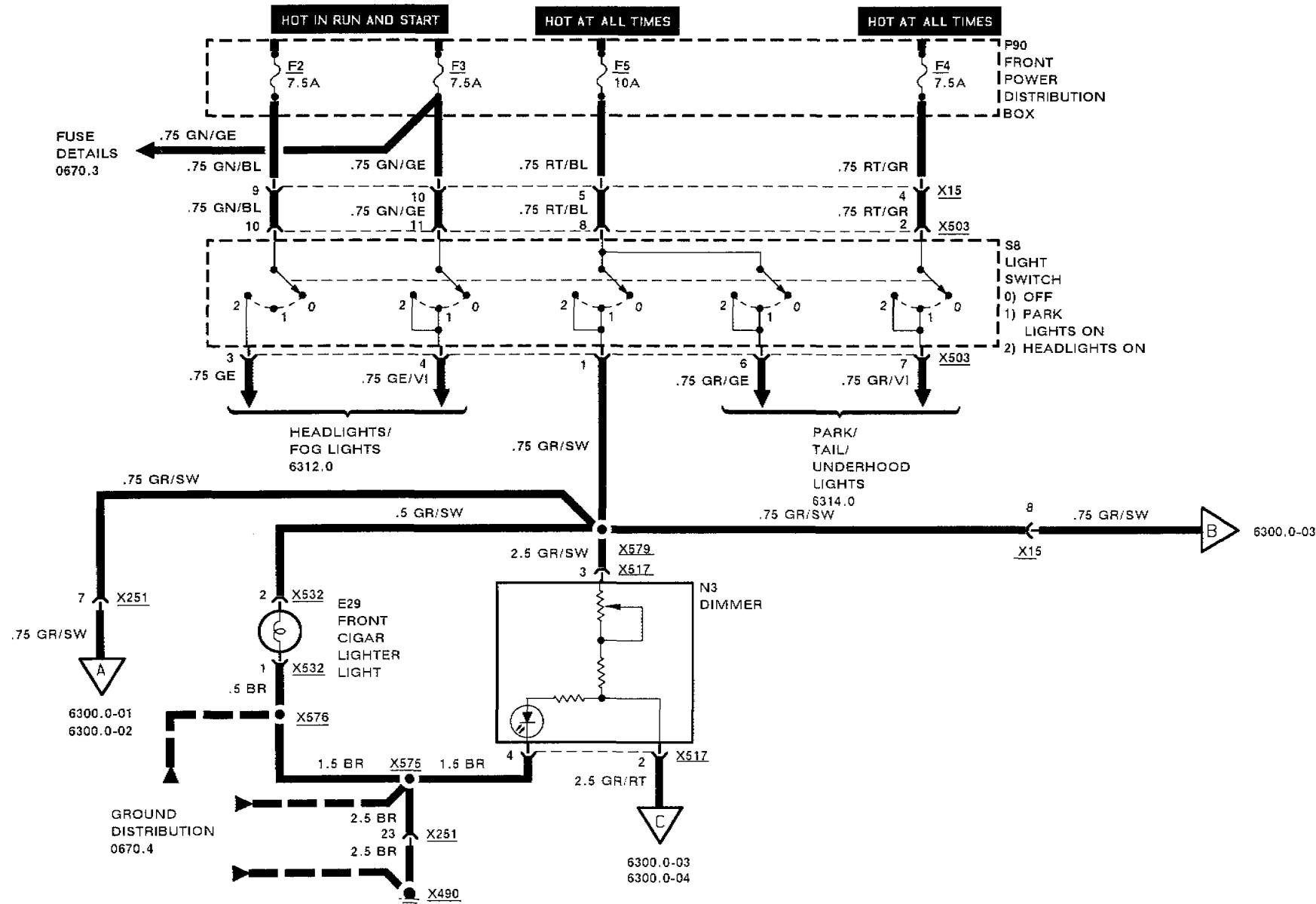


## INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

### DATA LINK



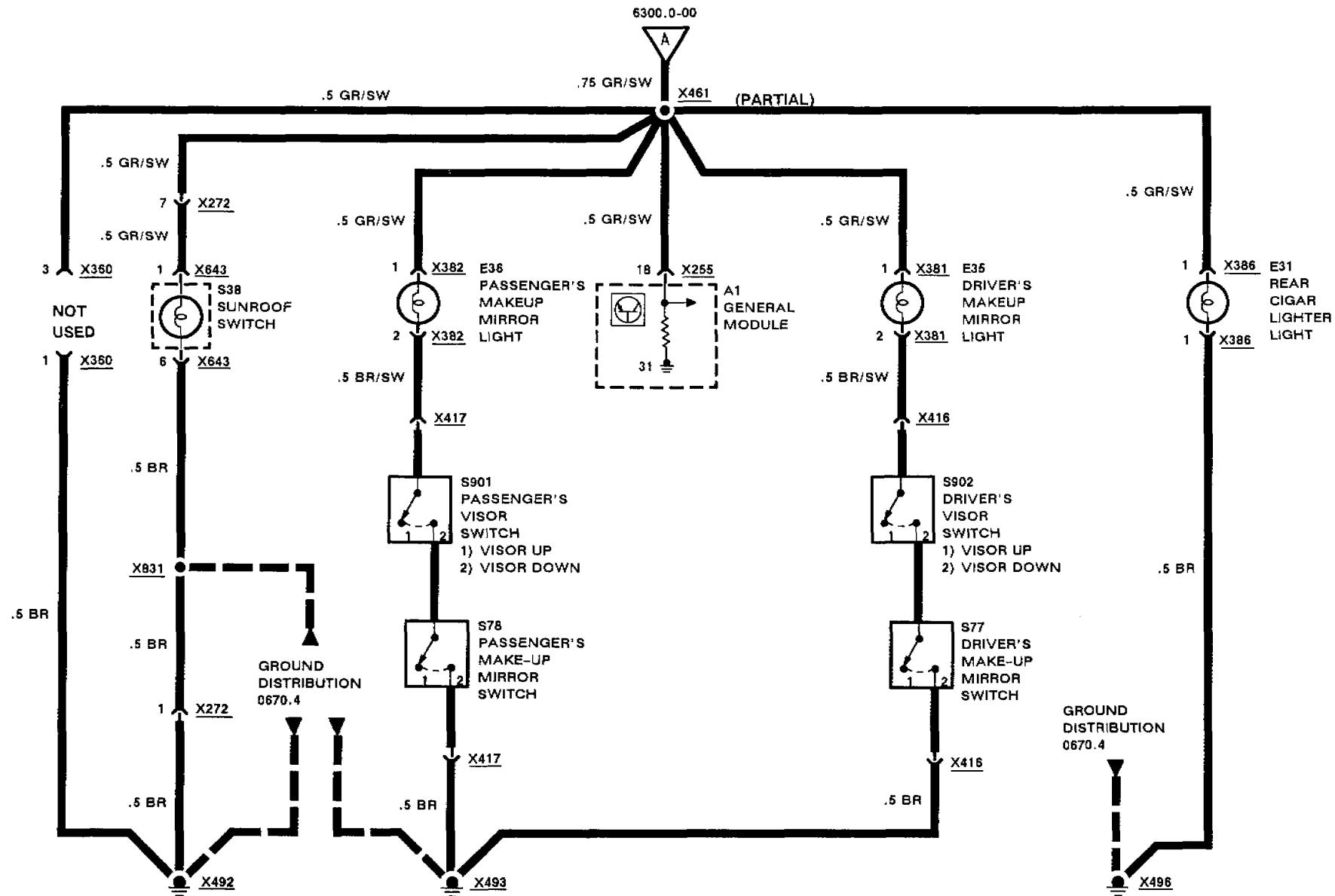






## LIGHT SWITCH DETAILS

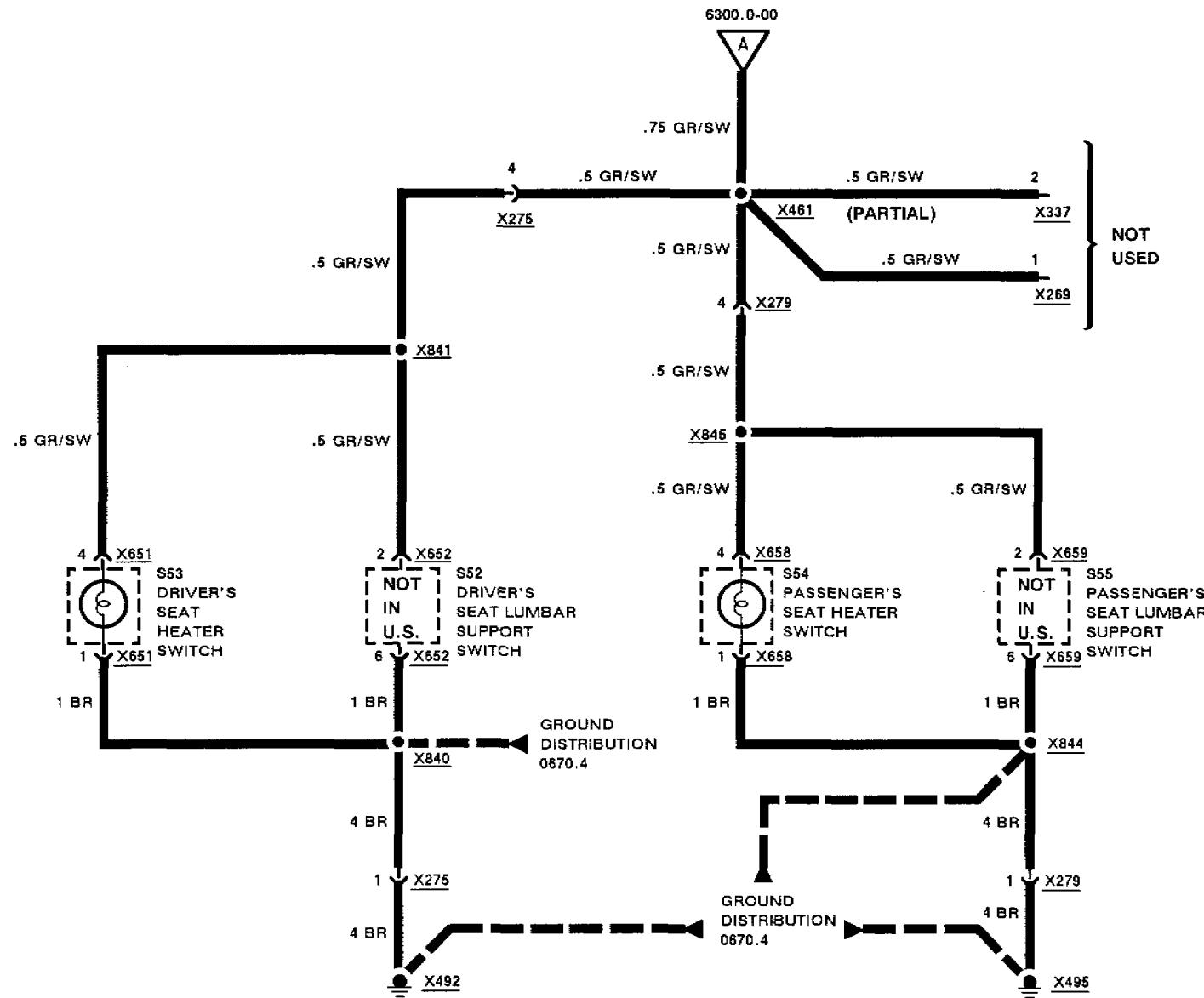
2/89





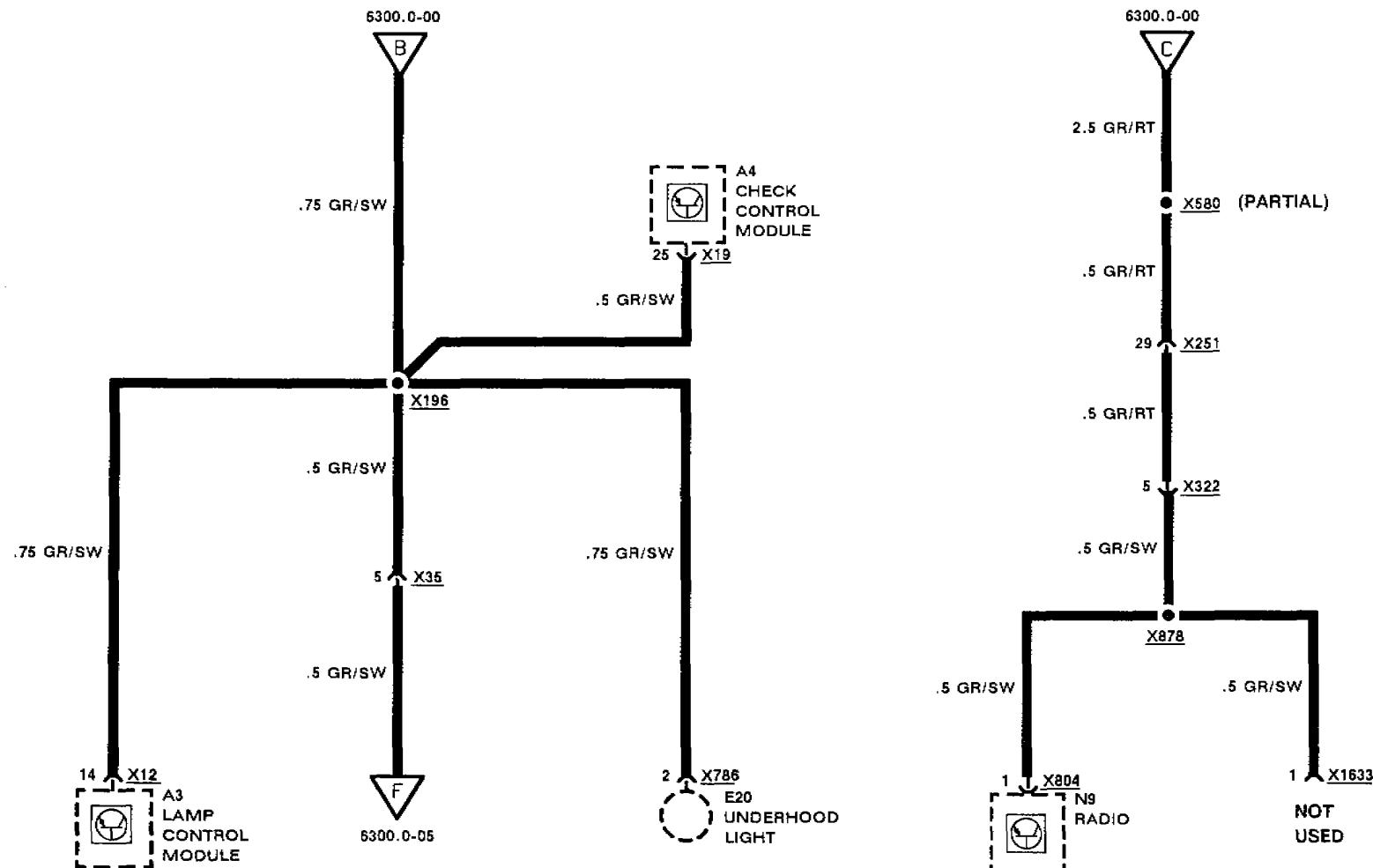
## LIGHT SWITCH DETAILS

2/89



6300.0-02

1989



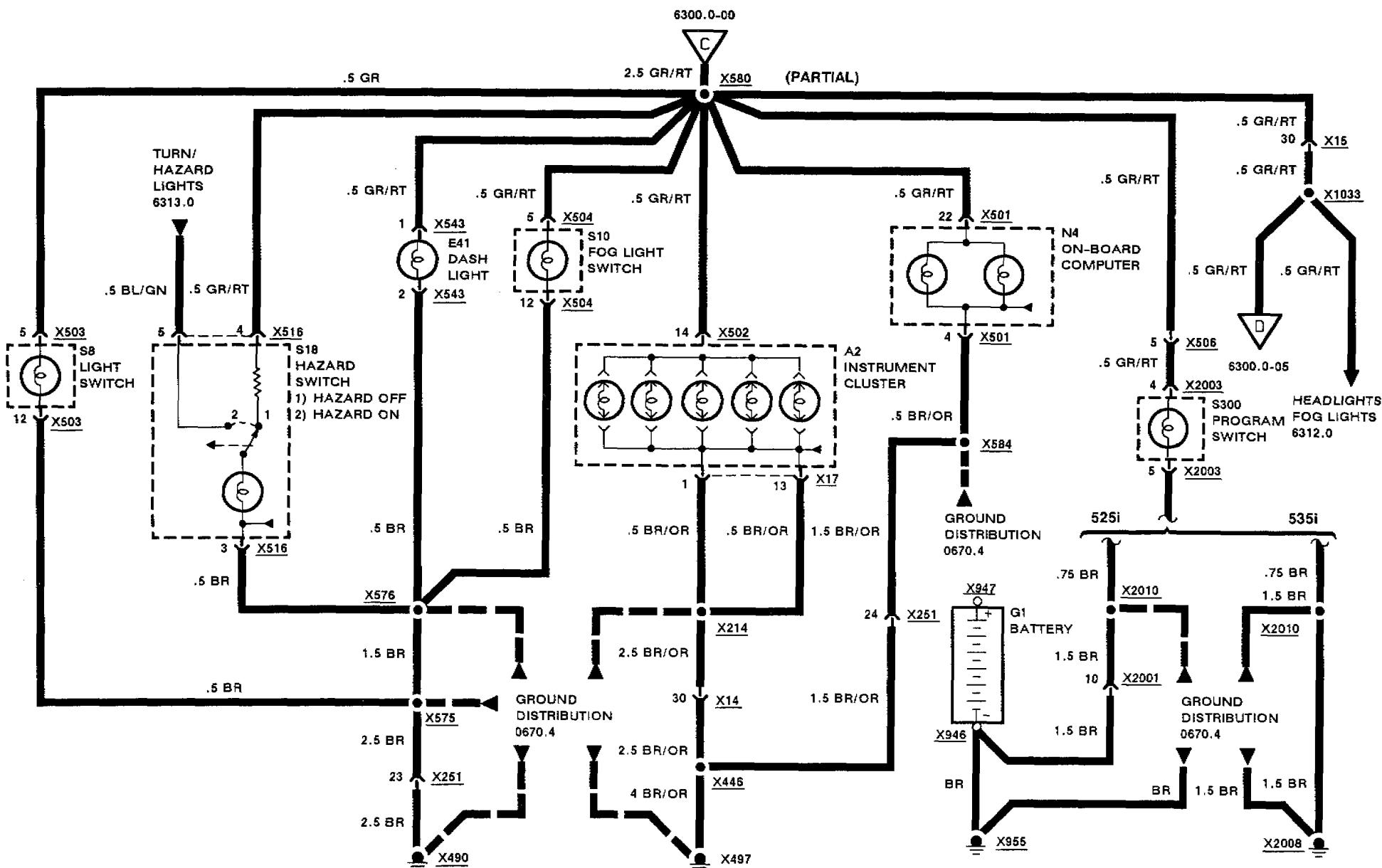


## LIGHT SWITCH DETAILS

2/89

6300.0-04

1989





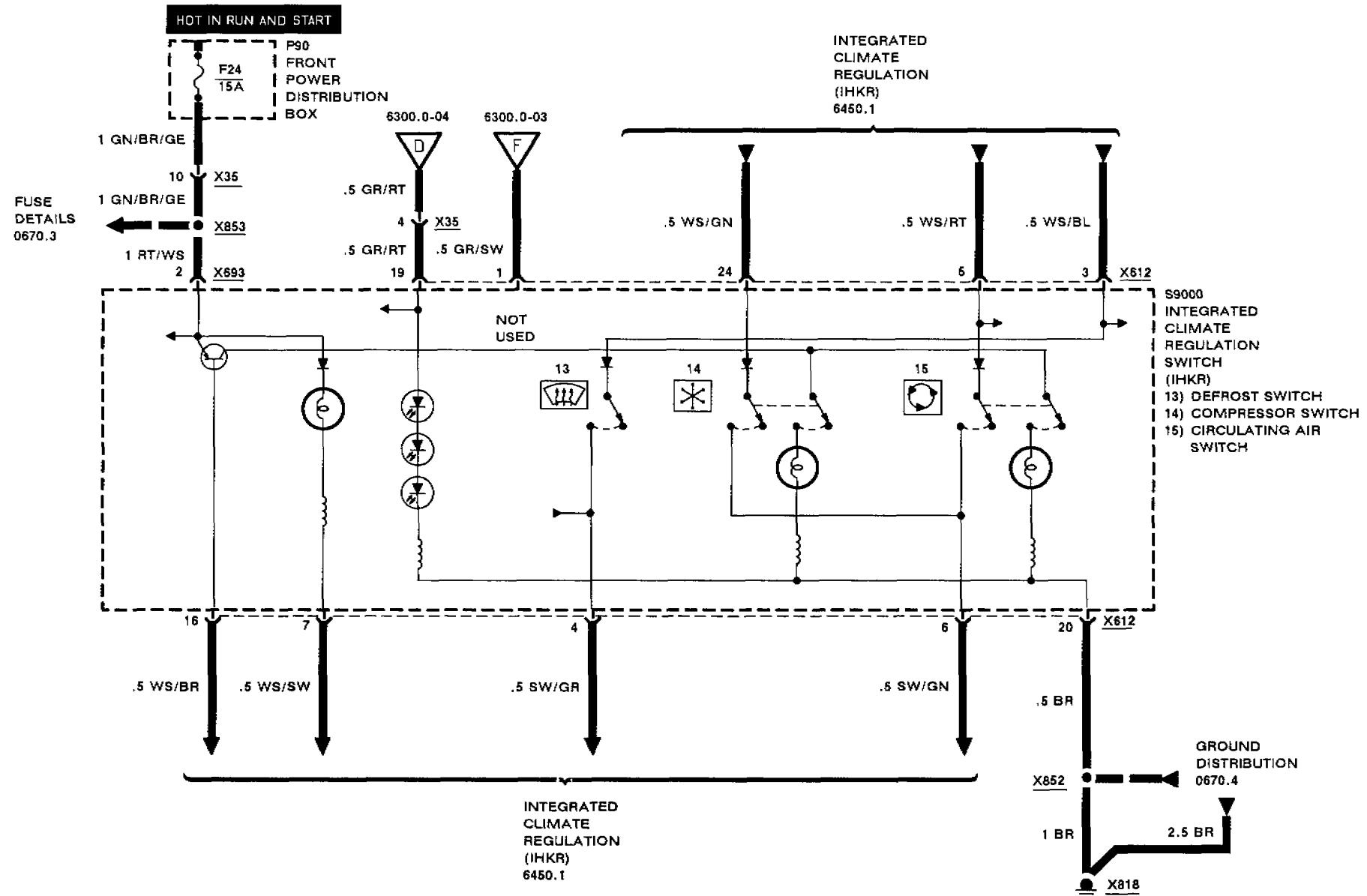
## LIGHT SWITCH DETAILS

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2/89

6300.0-05

1989



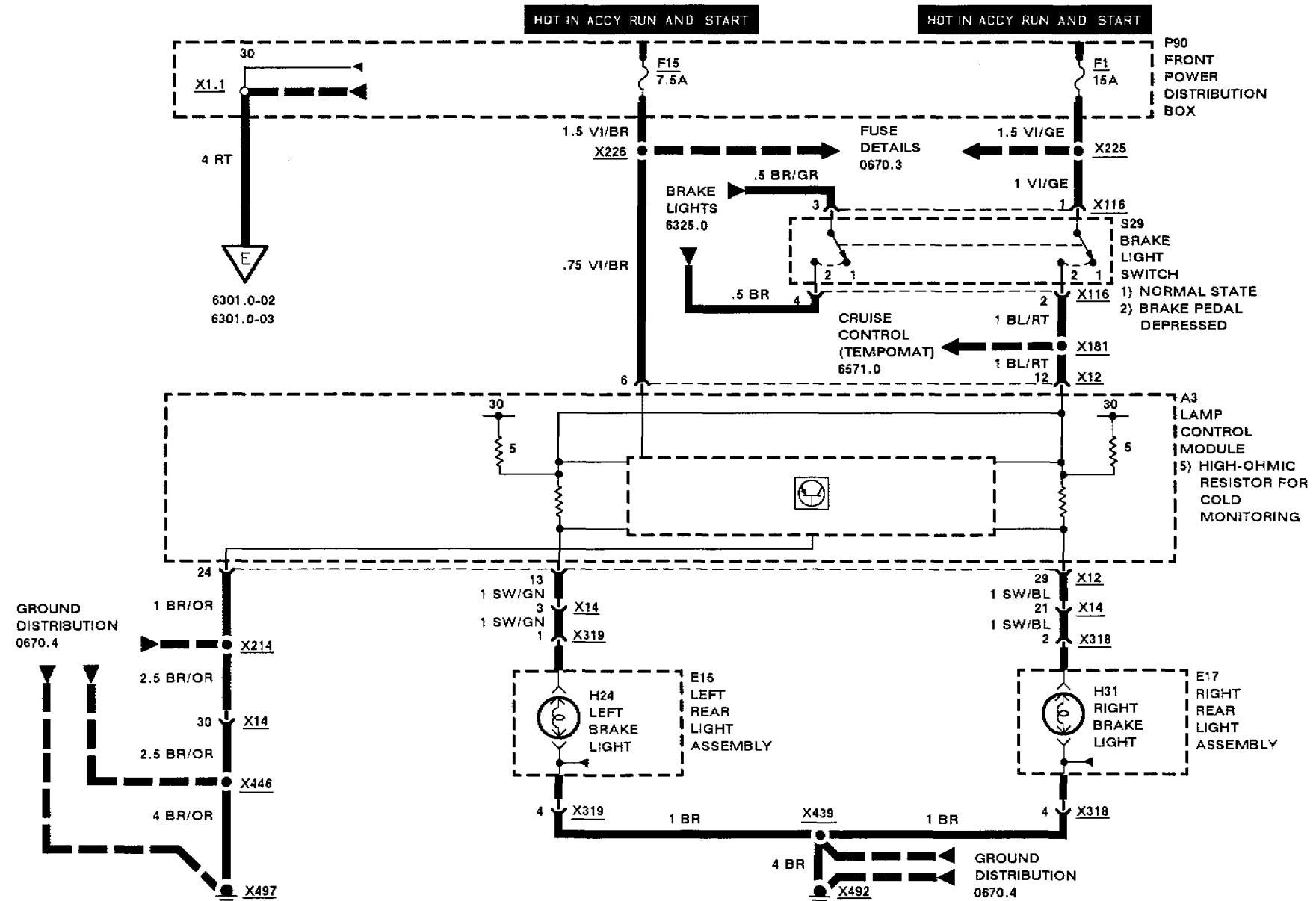


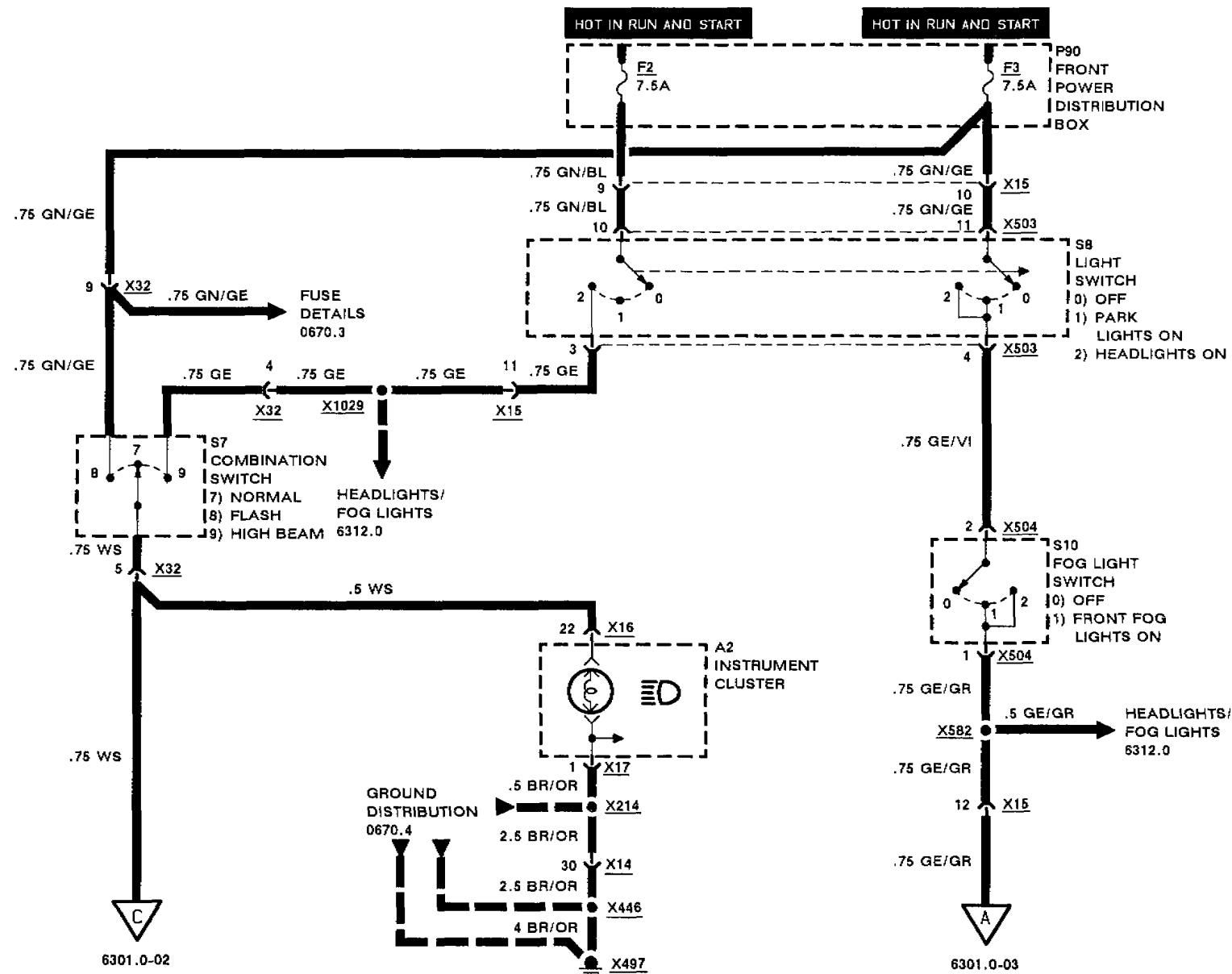
## LAMP MONITOR (LKM)

2/89

6301.0-00

1989





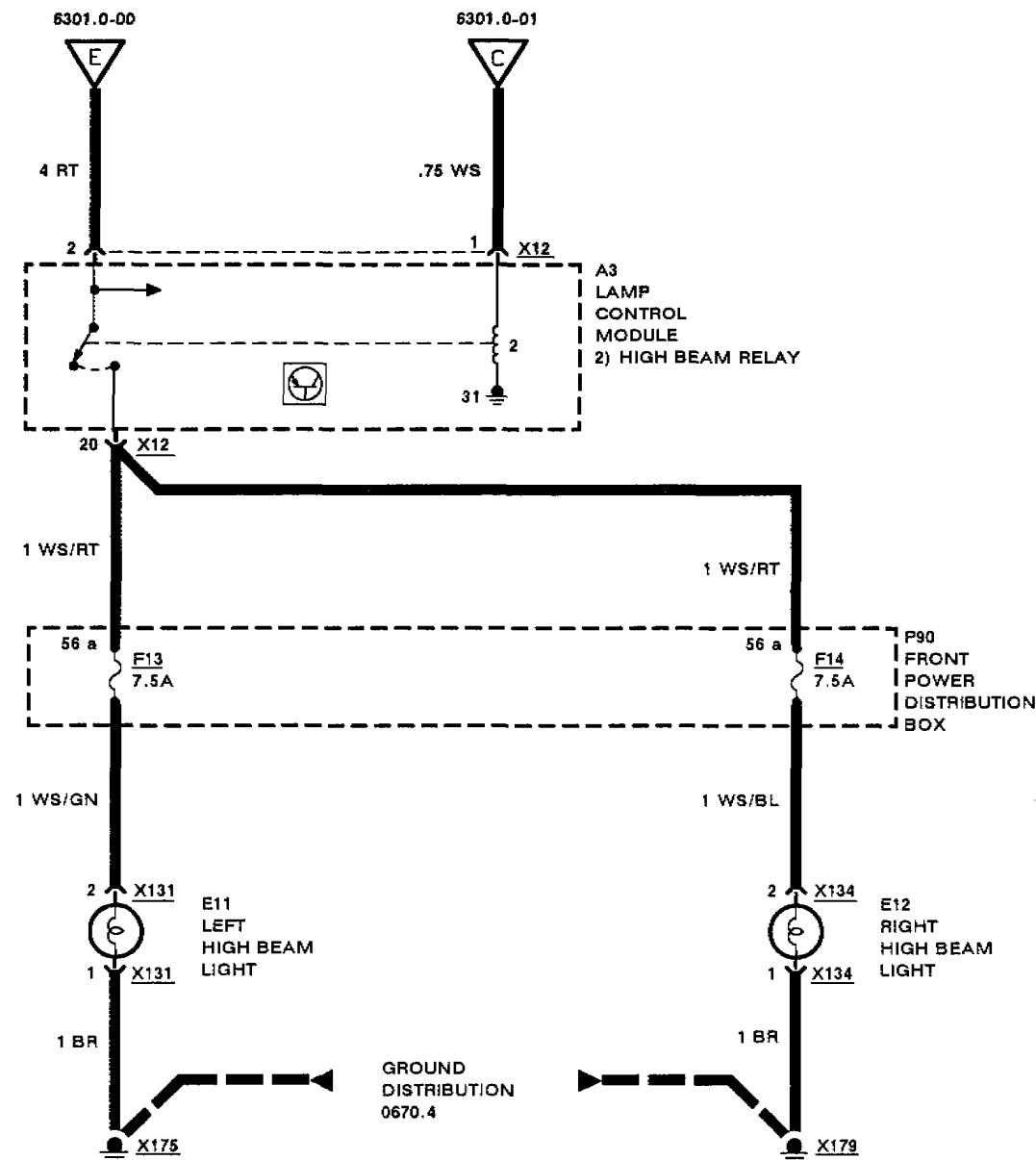


## LAMP MONITOR (LKM)

2/89

6301.0-02

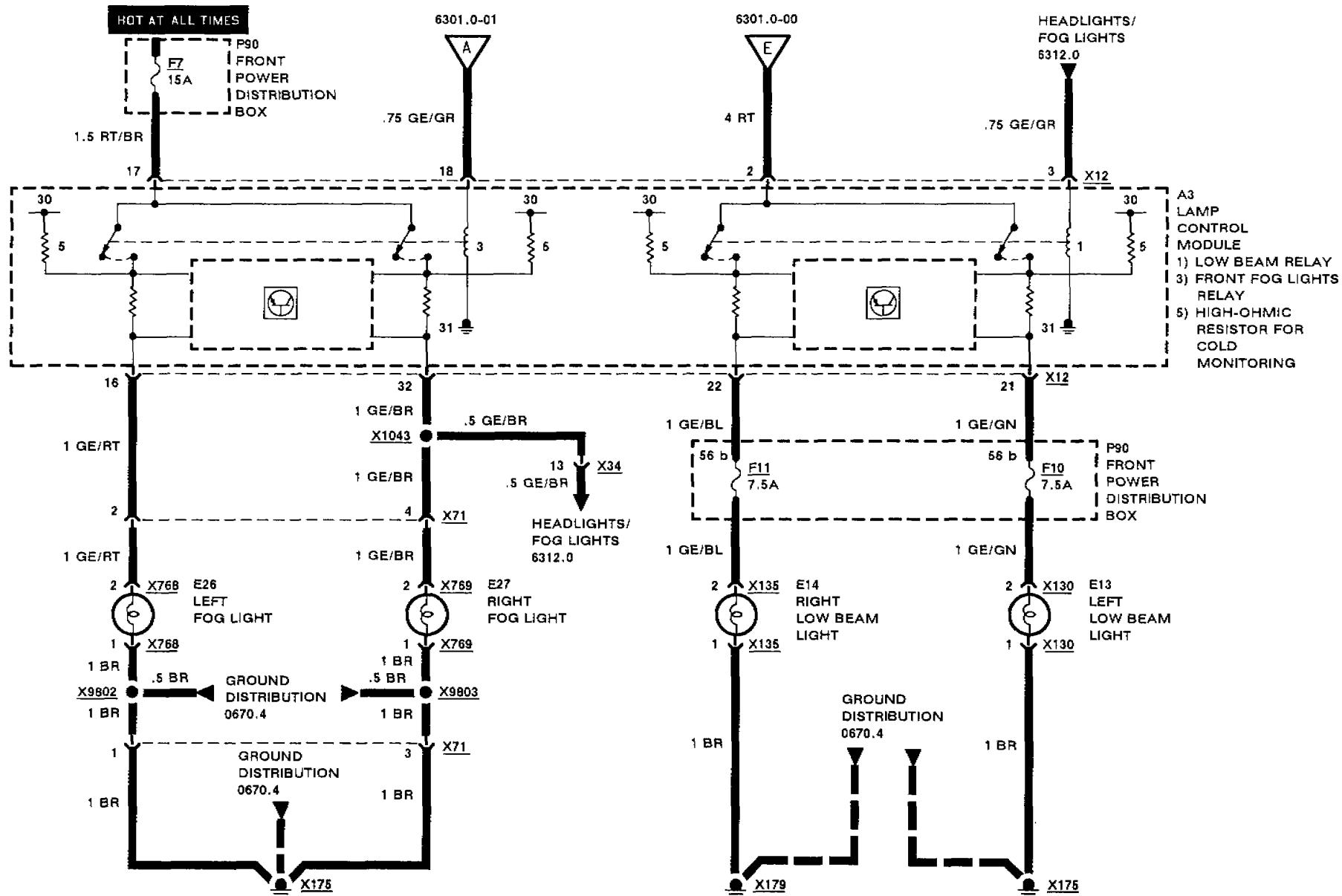
1989





## LAMP MONITOR (LKM)

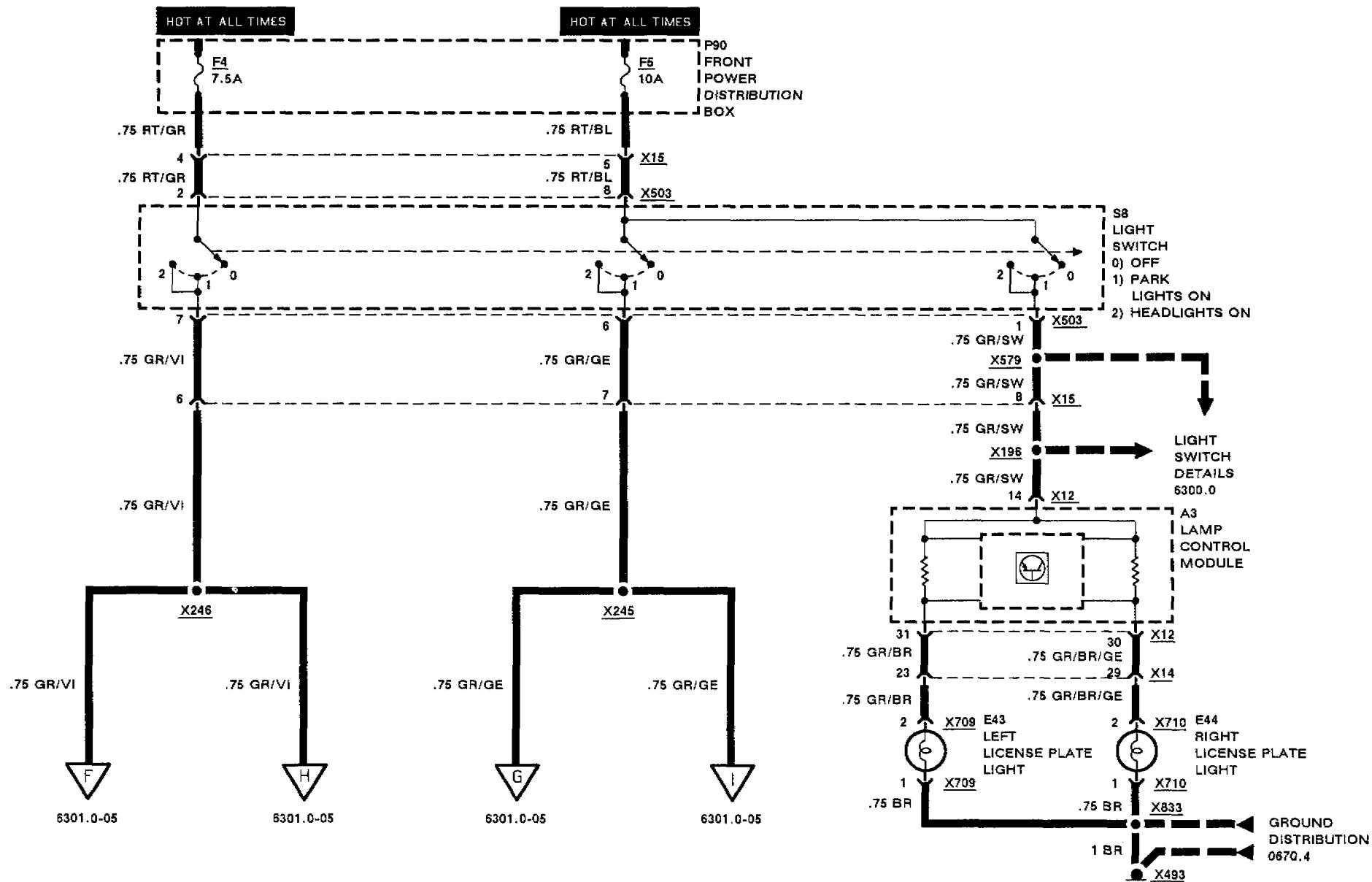
2  
88  
10



6301.0-03

6861

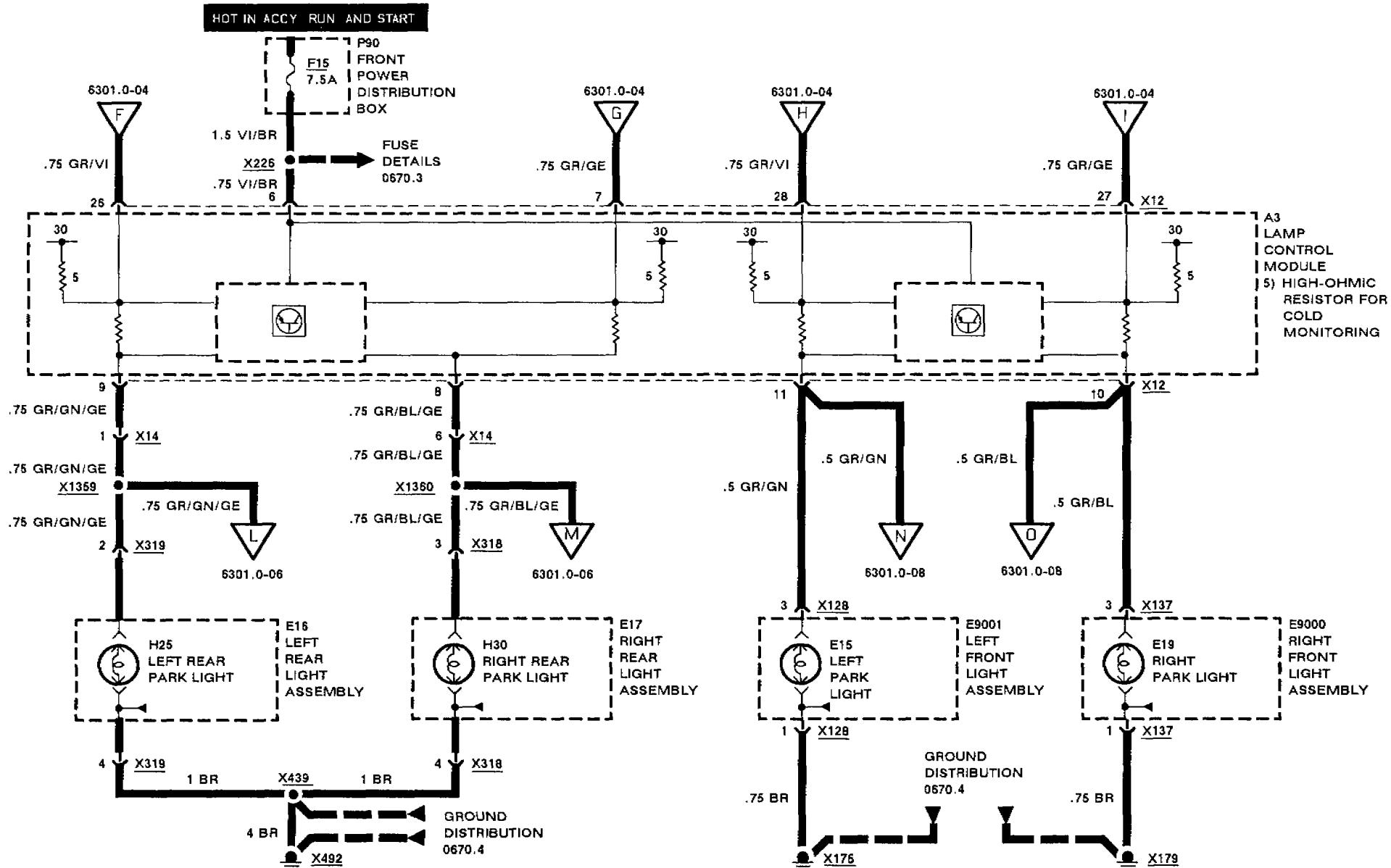
## LAMP MONITOR (LKM)



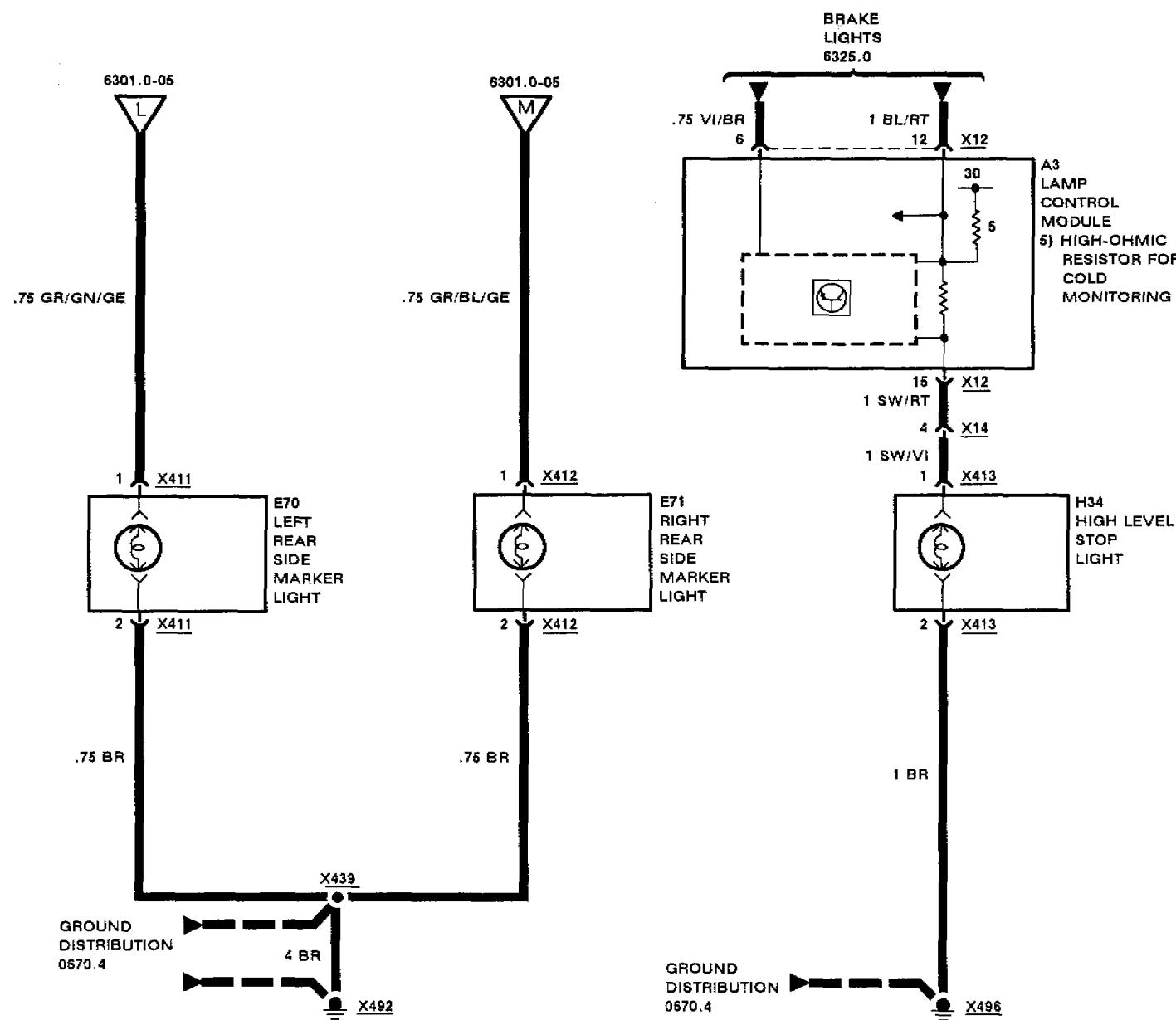


## LAMP MONITOR (LKM)

2/89



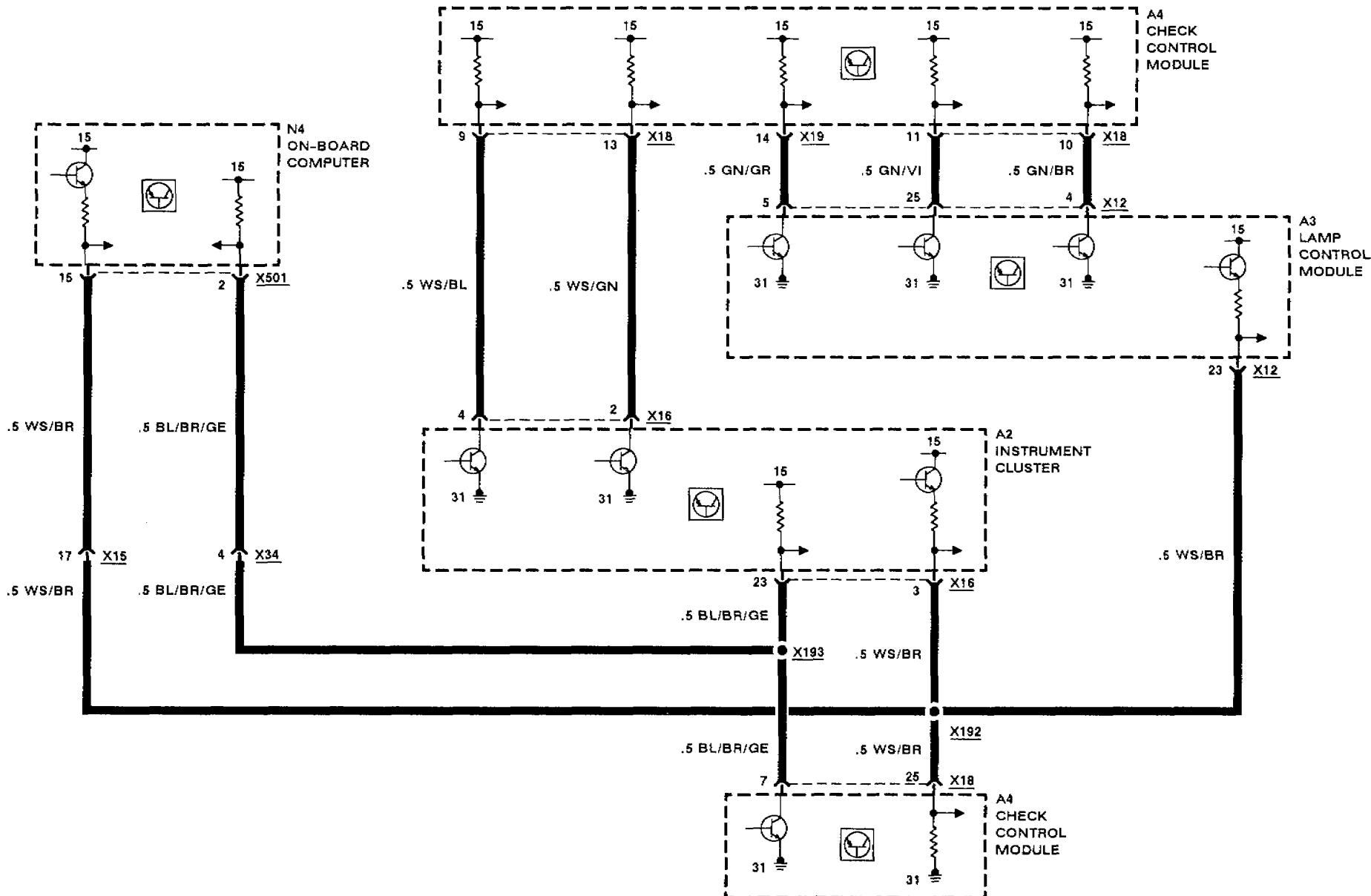
# LAMP MONITOR (LKM)

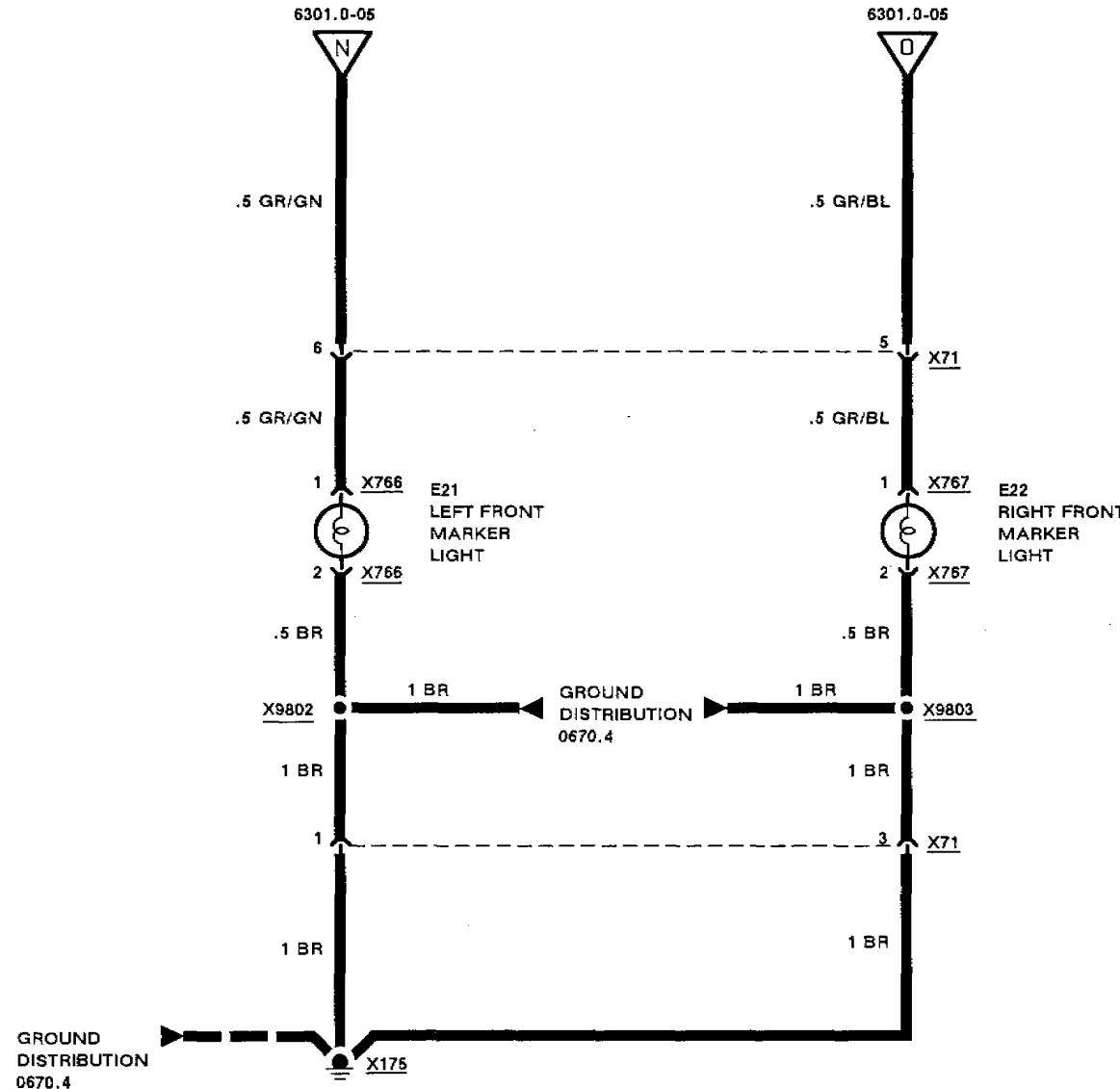




## LAMP MONITOR (LKM)

### DATA LINK

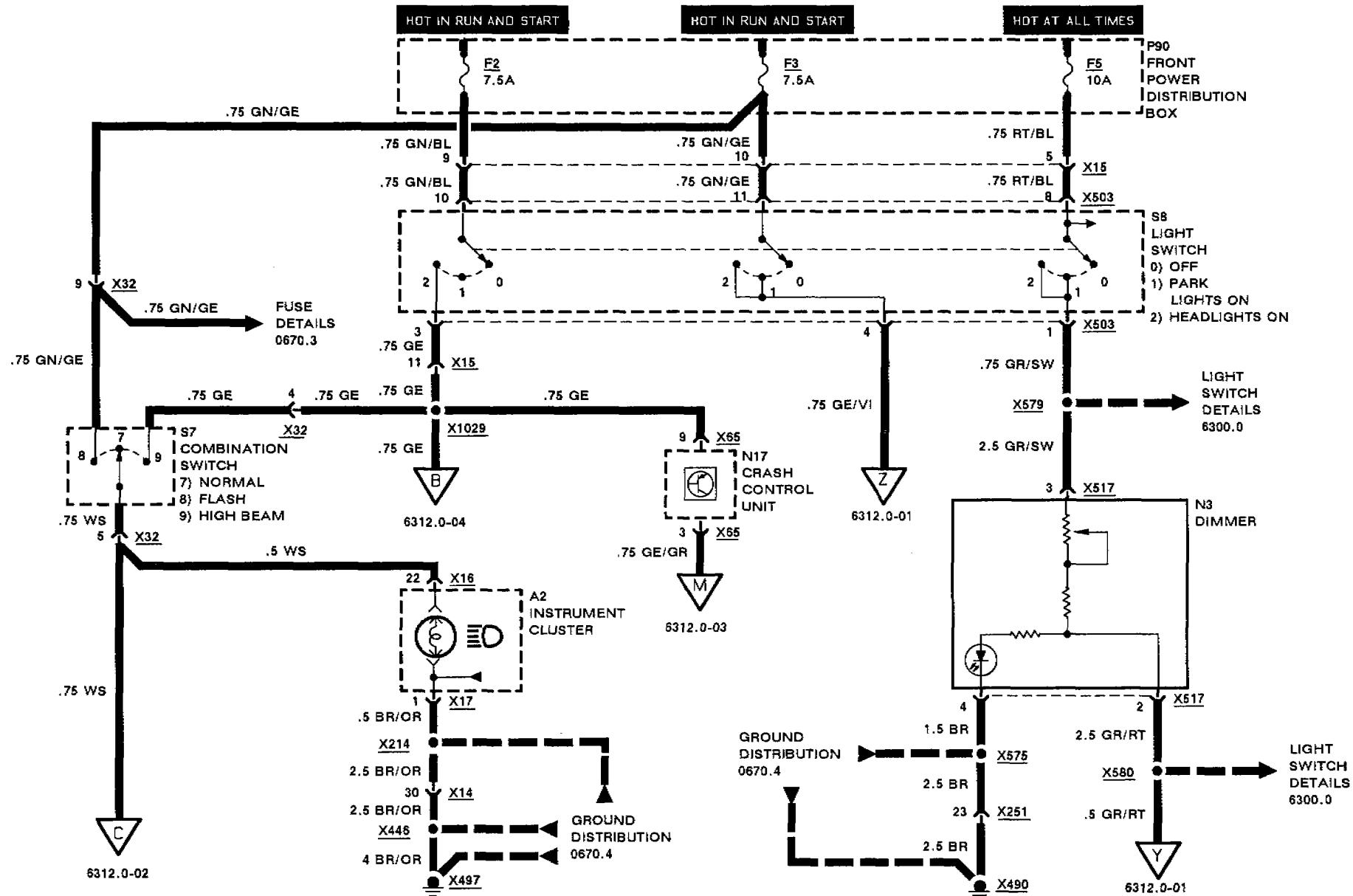






## HEADLIGHTS/ FOG LIGHTS

2/89



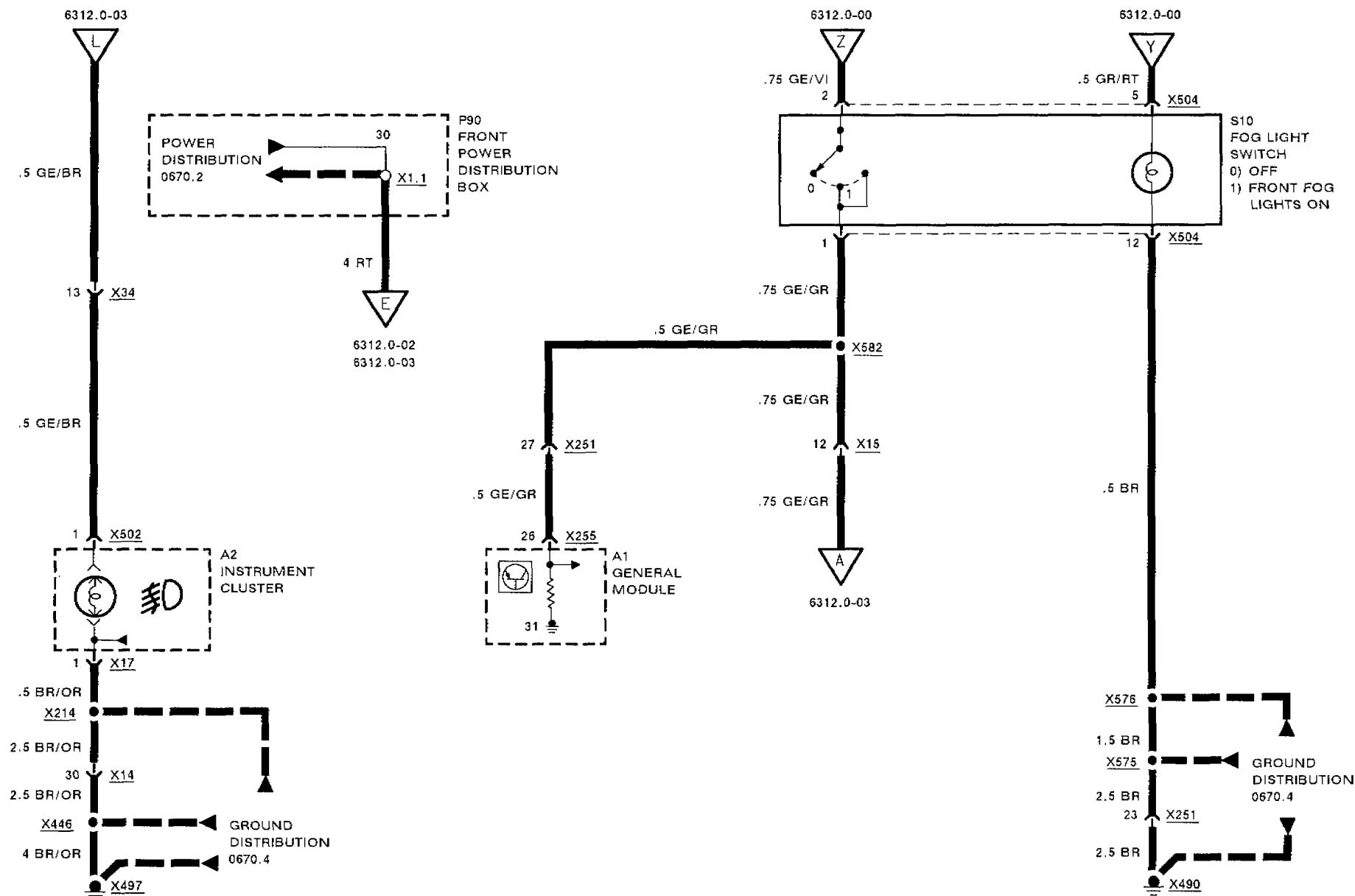
6312.0-00

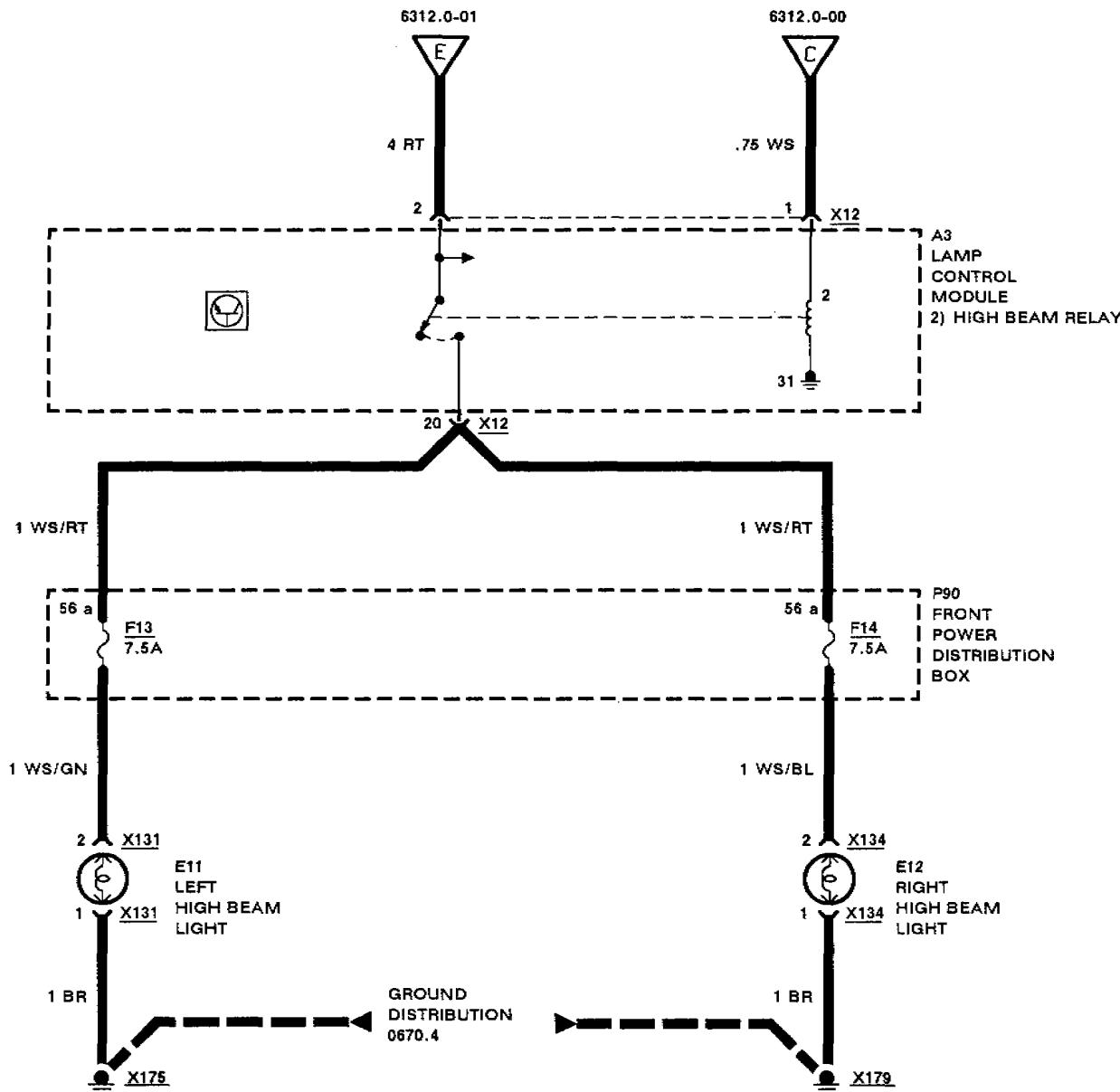
1989

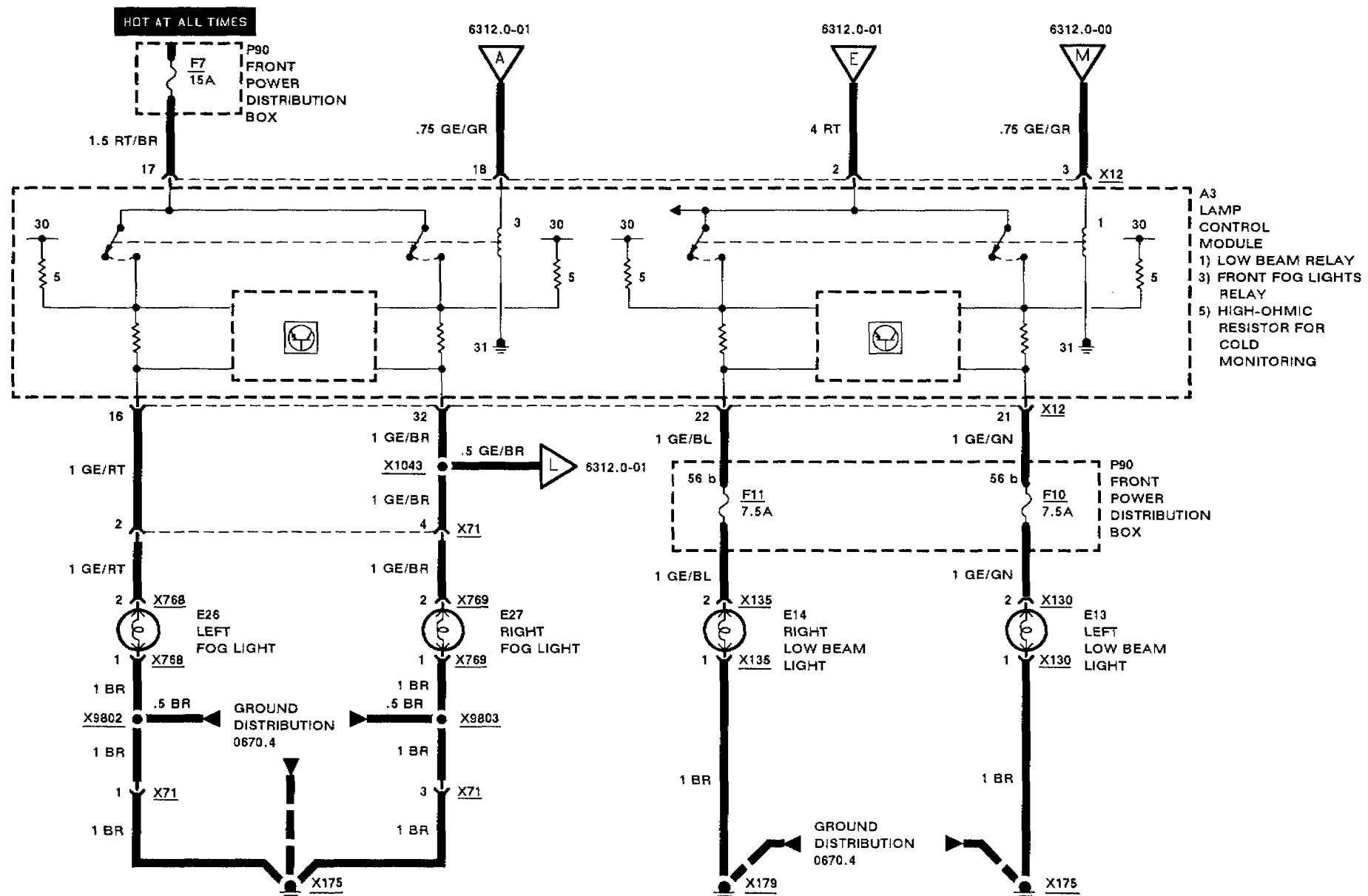


## HEADLIGHTS/ FOG LIGHTS

2/89







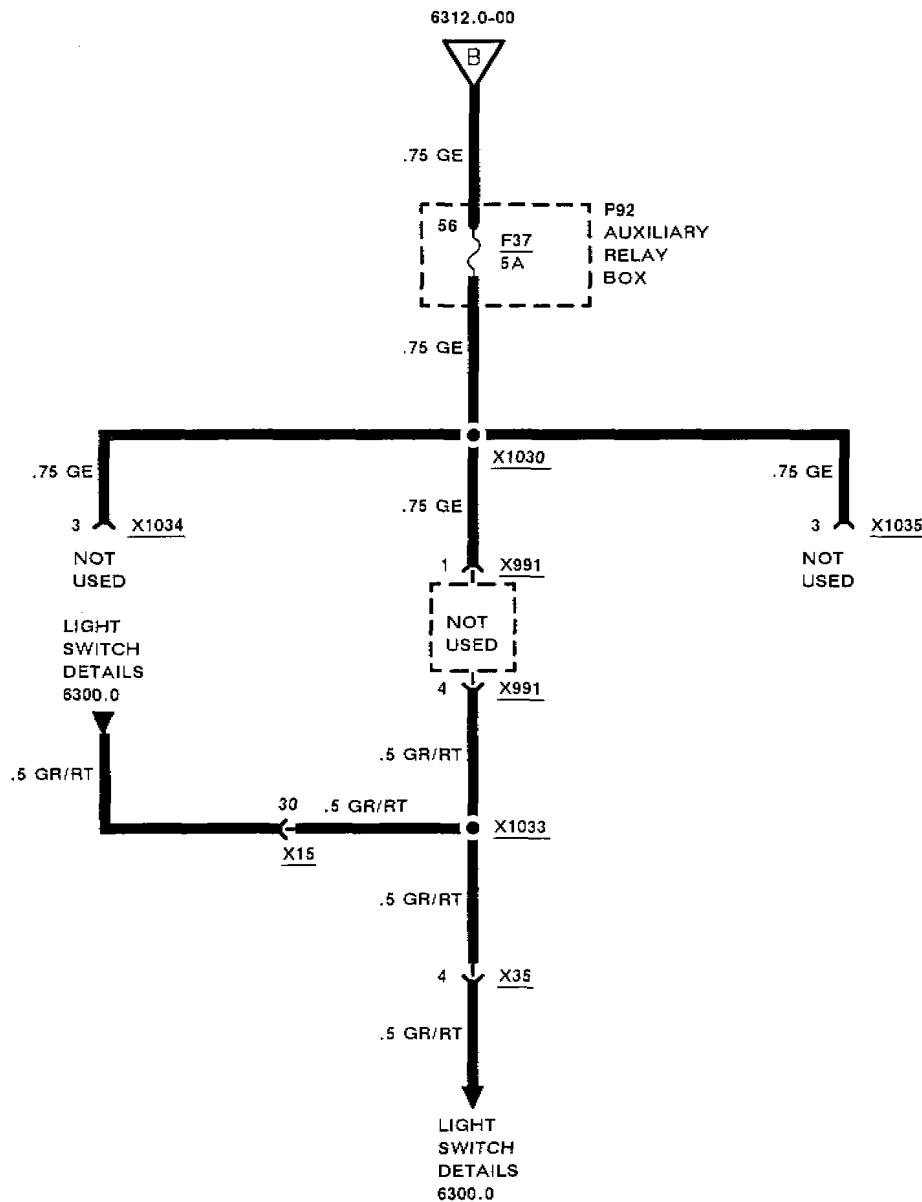


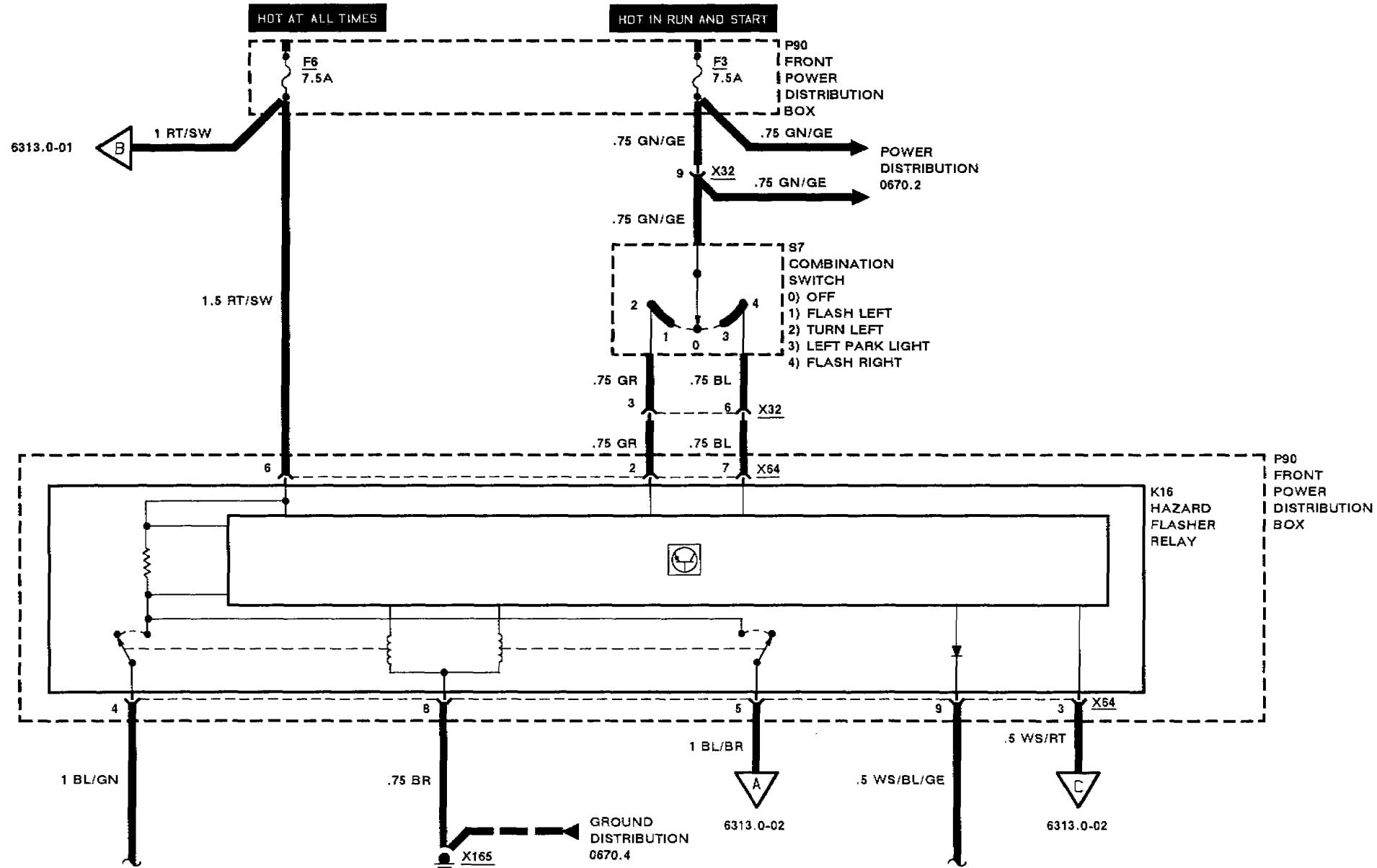
## HEADLIGHTS/ FOG LIGHTS

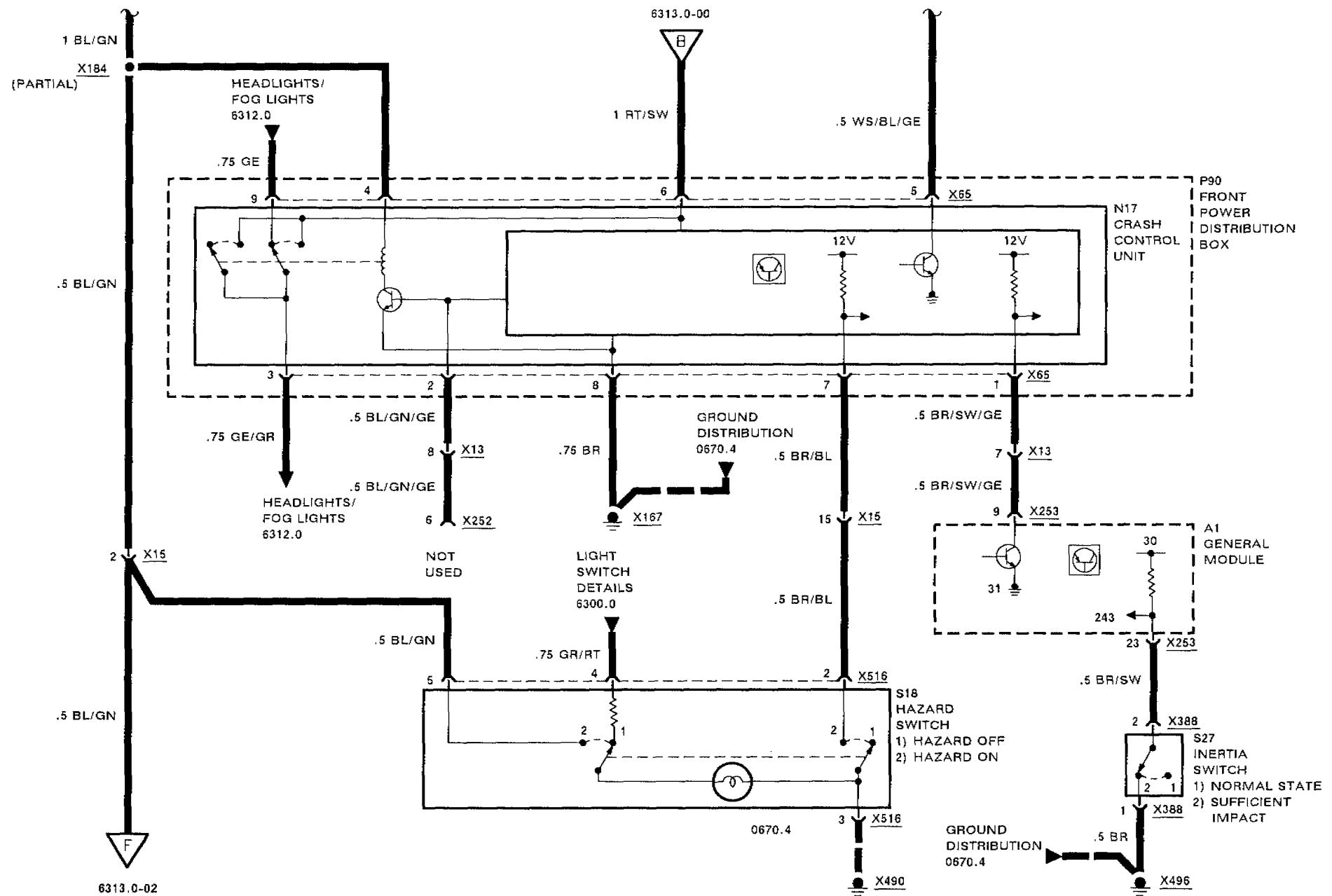
2/89

6312.0-04

1989







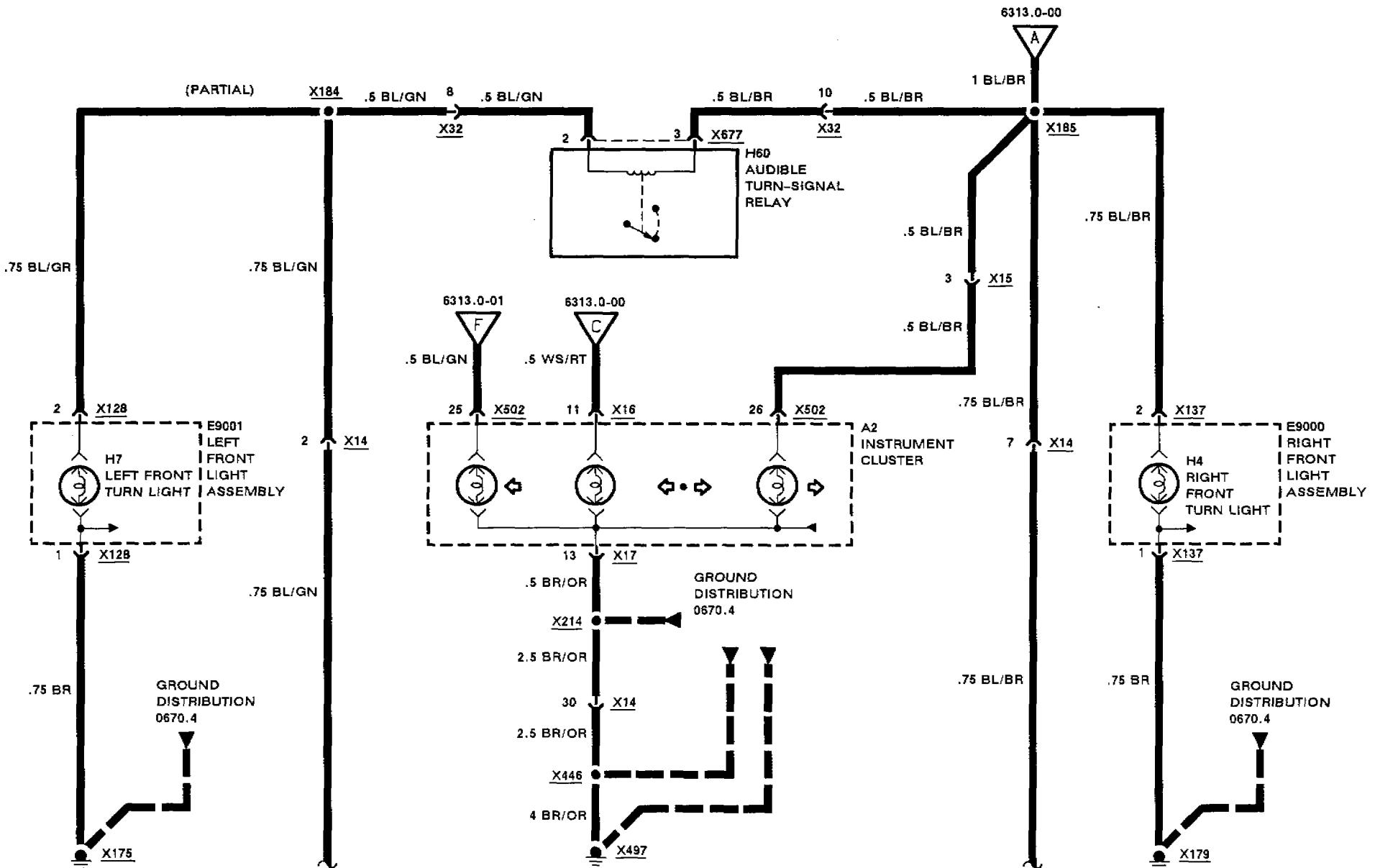


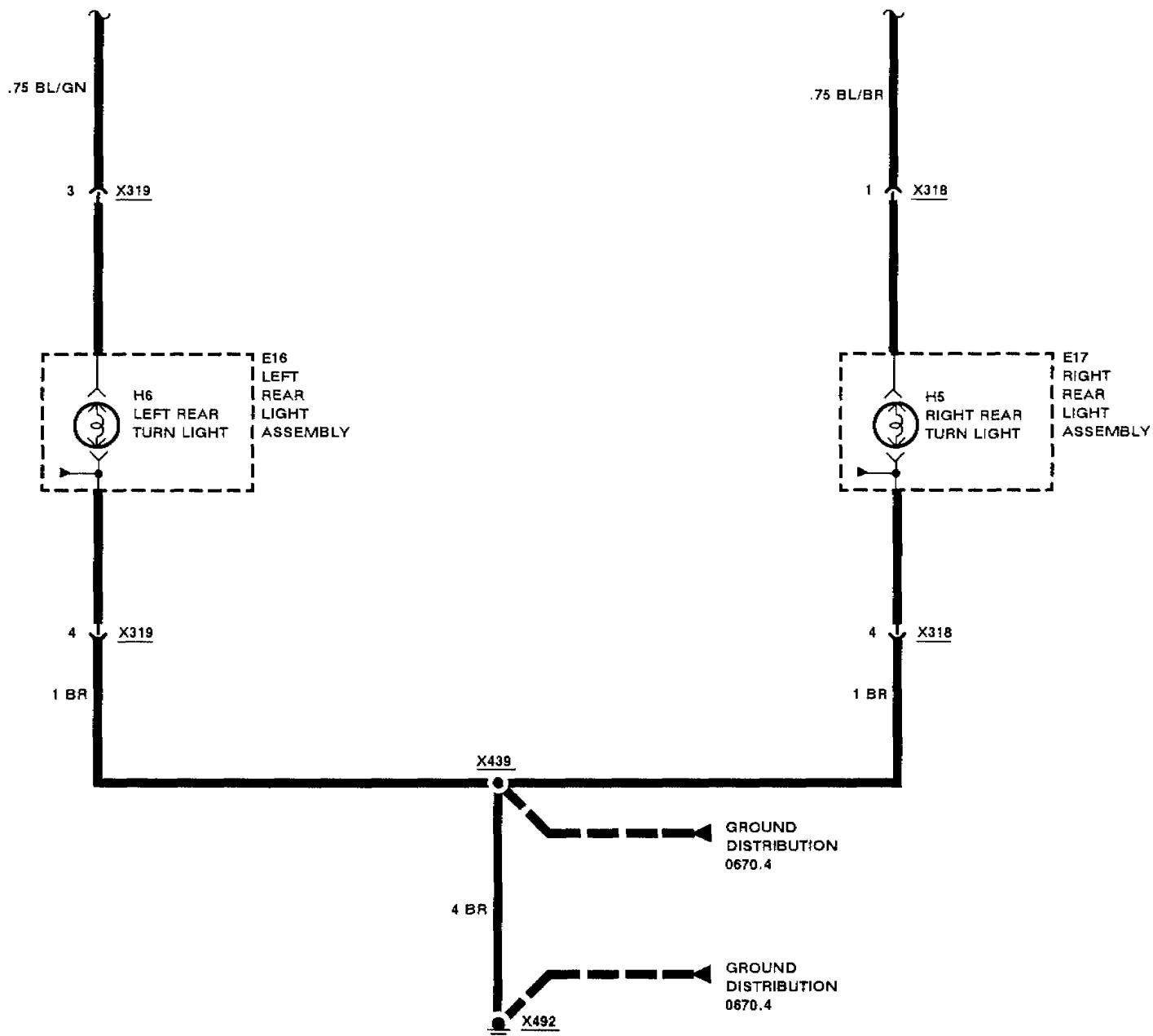
## TURN/ HAZARD LIGHTS

2/89

6313.0-02

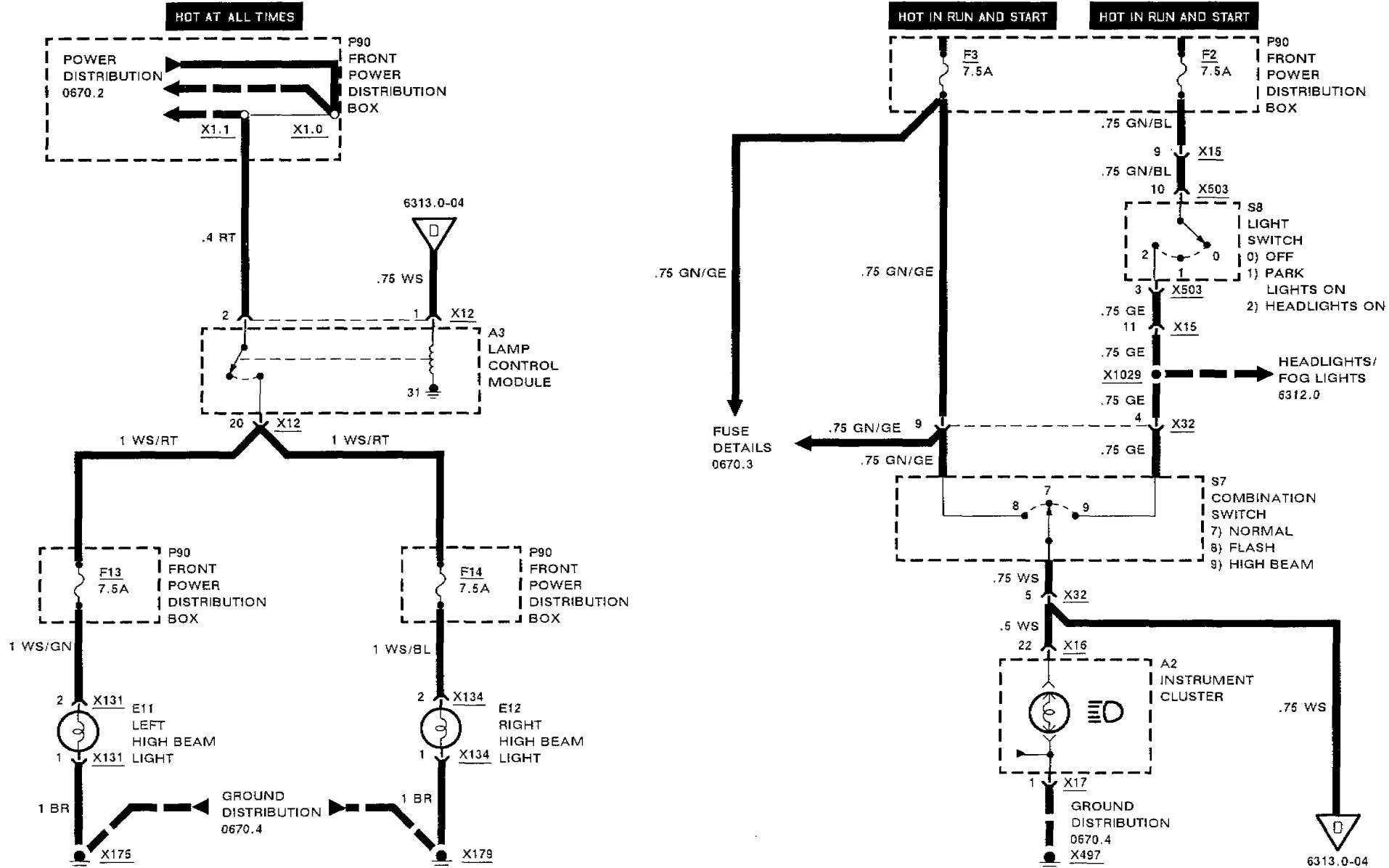
1989







## TURN/ HAZARD LIGHTS



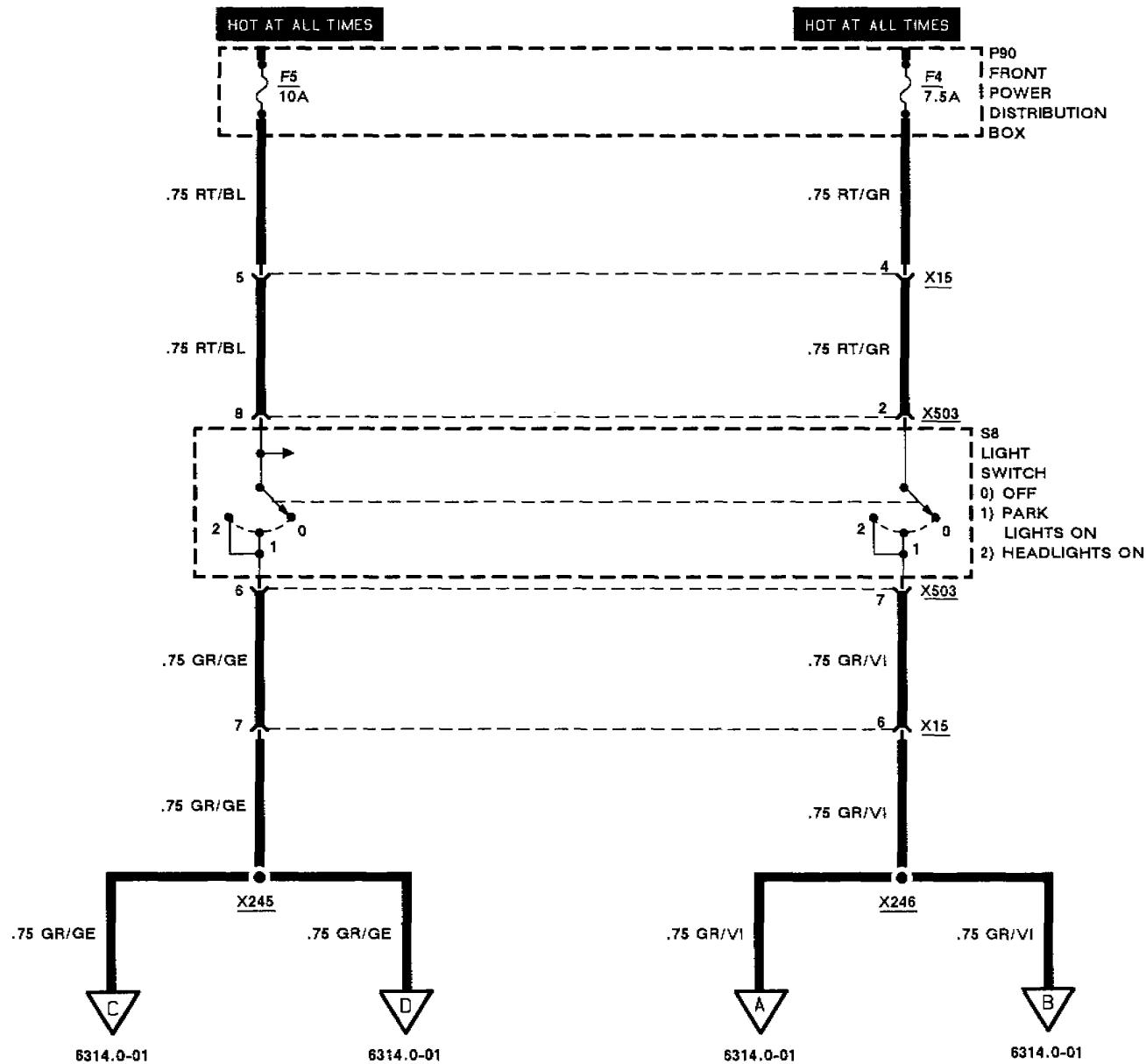


## PARK/ TAIL/ UNDERHOOD LIGHTS

2/89

6314.0-00

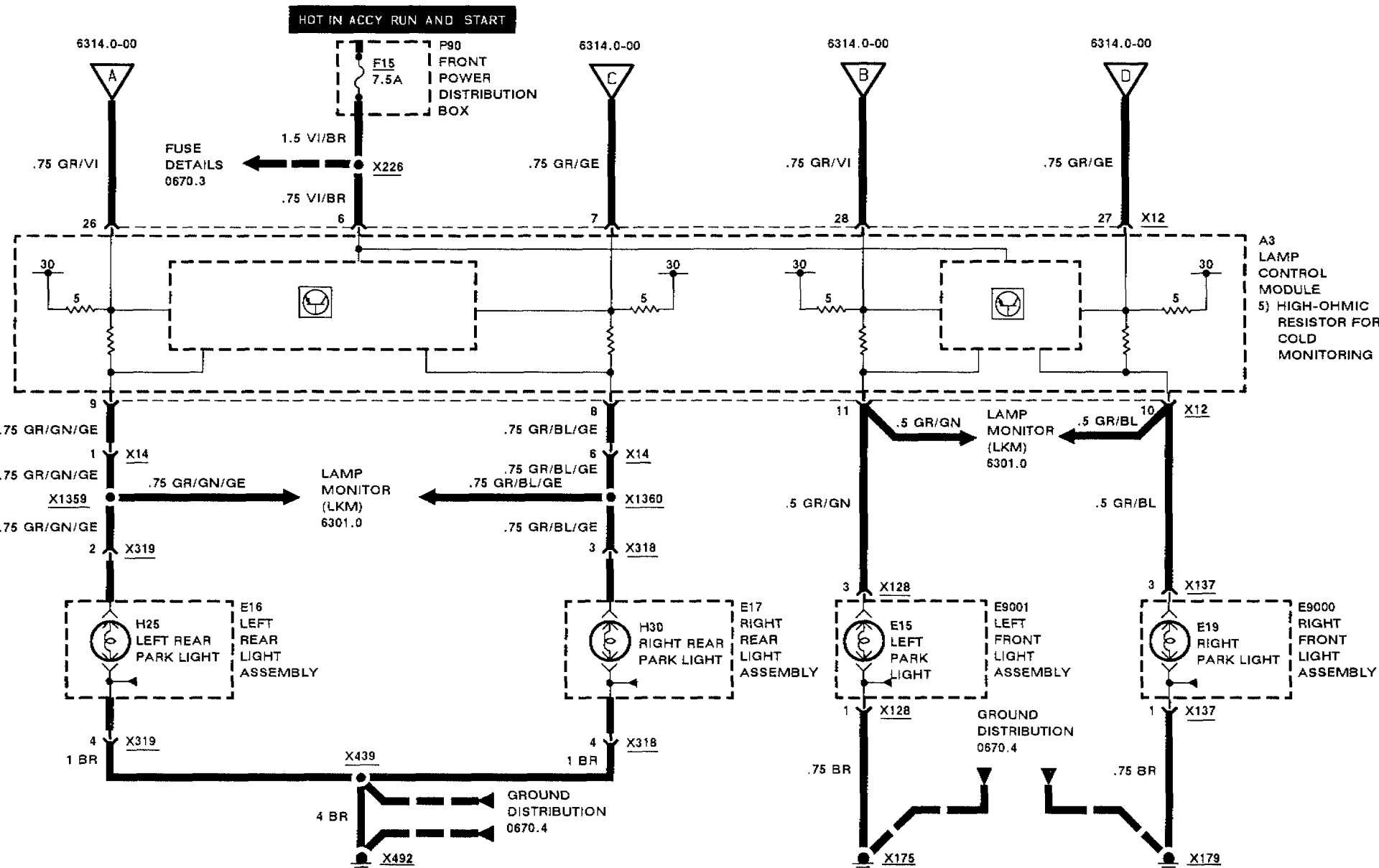
1989





# PARK/ TAIL/ UNDERHOOD LIGHTS

## FRONT AND REAR PARK LIGHTS





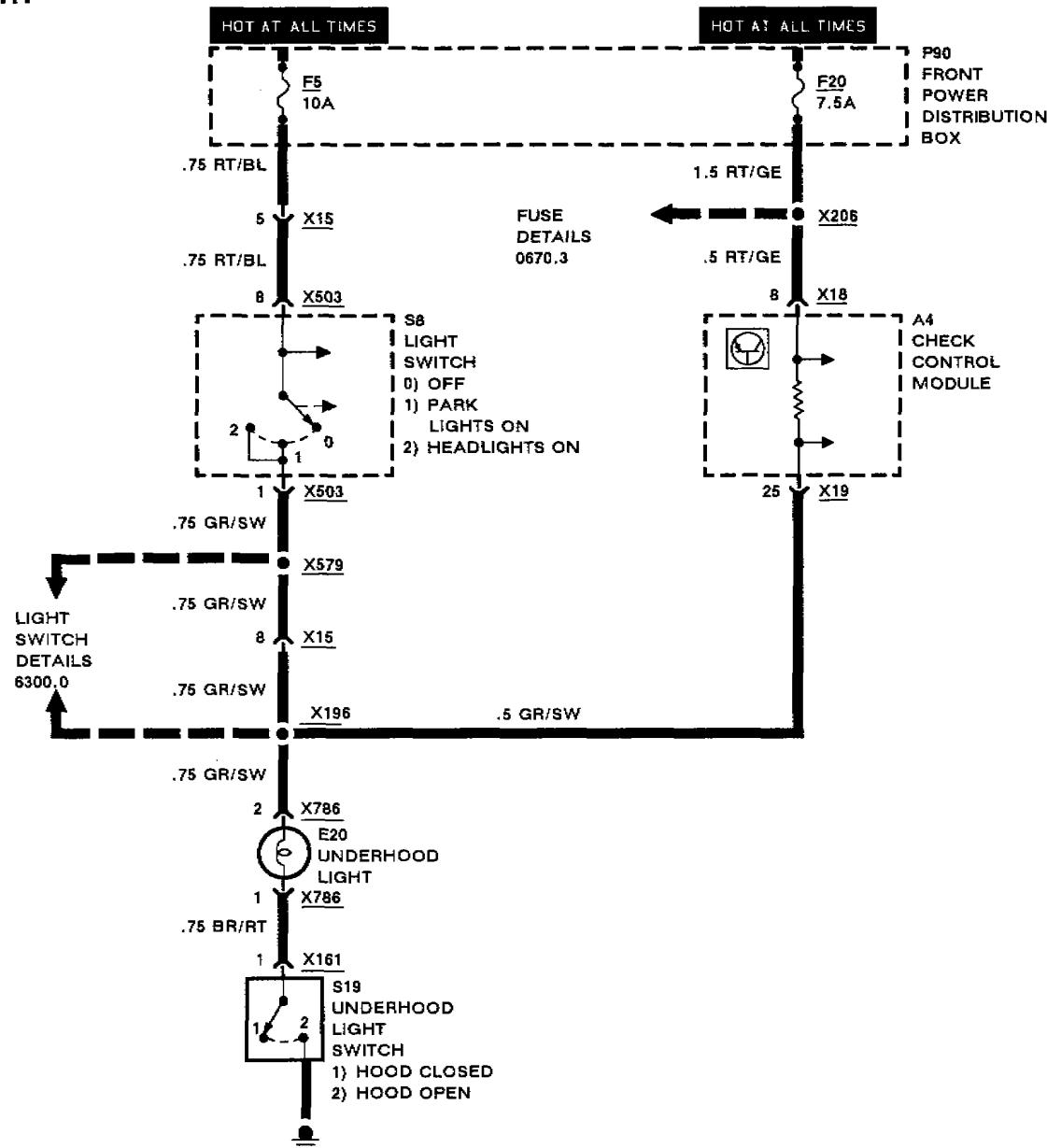
## PARK/ TAIL/ UNDERHOOD LIGHTS

### UNDERHOOD LIGHT

2/89

6314.0-02

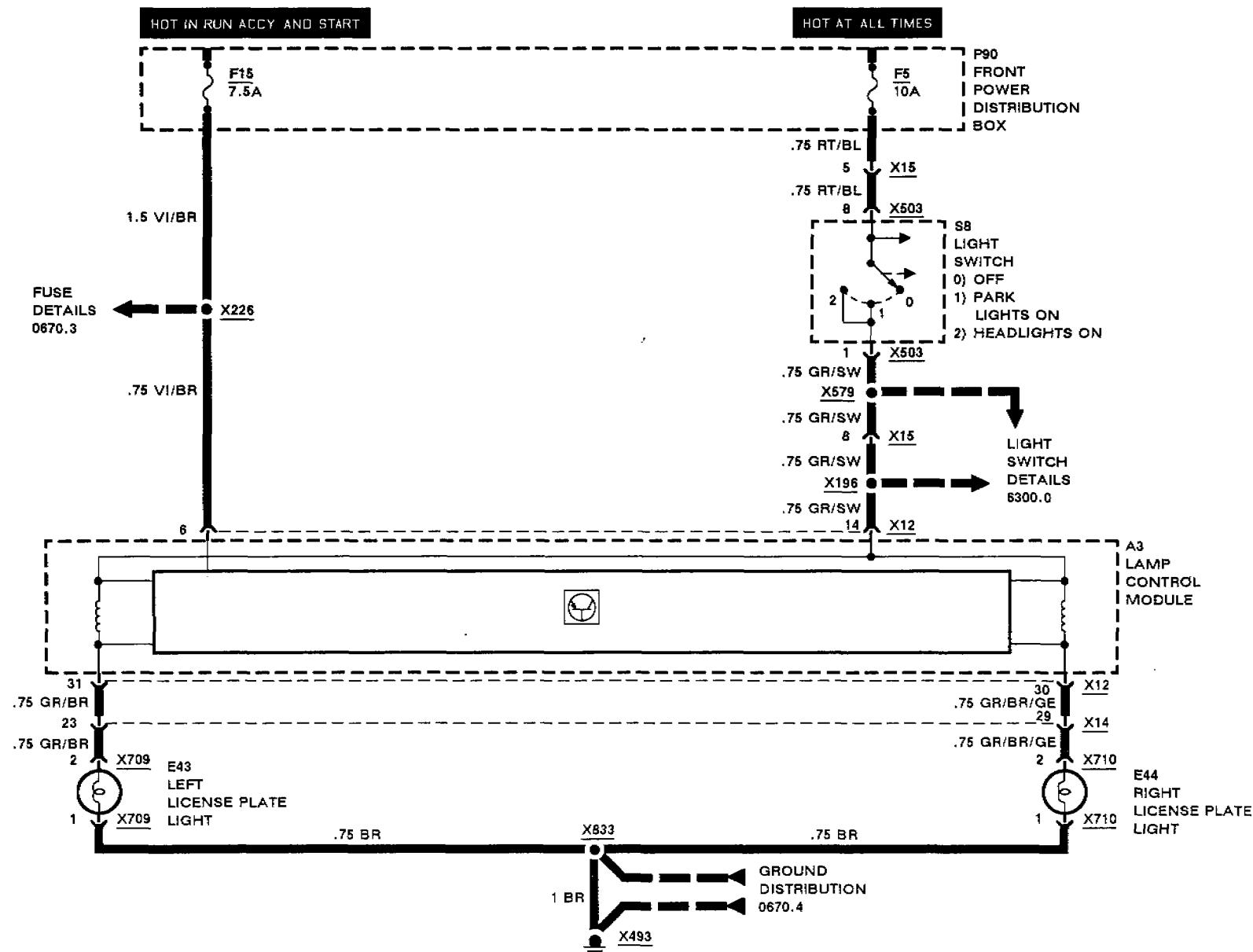
1989





## LICENSE/ TRUNK LIGHTS

### LICENSE LIGHTS





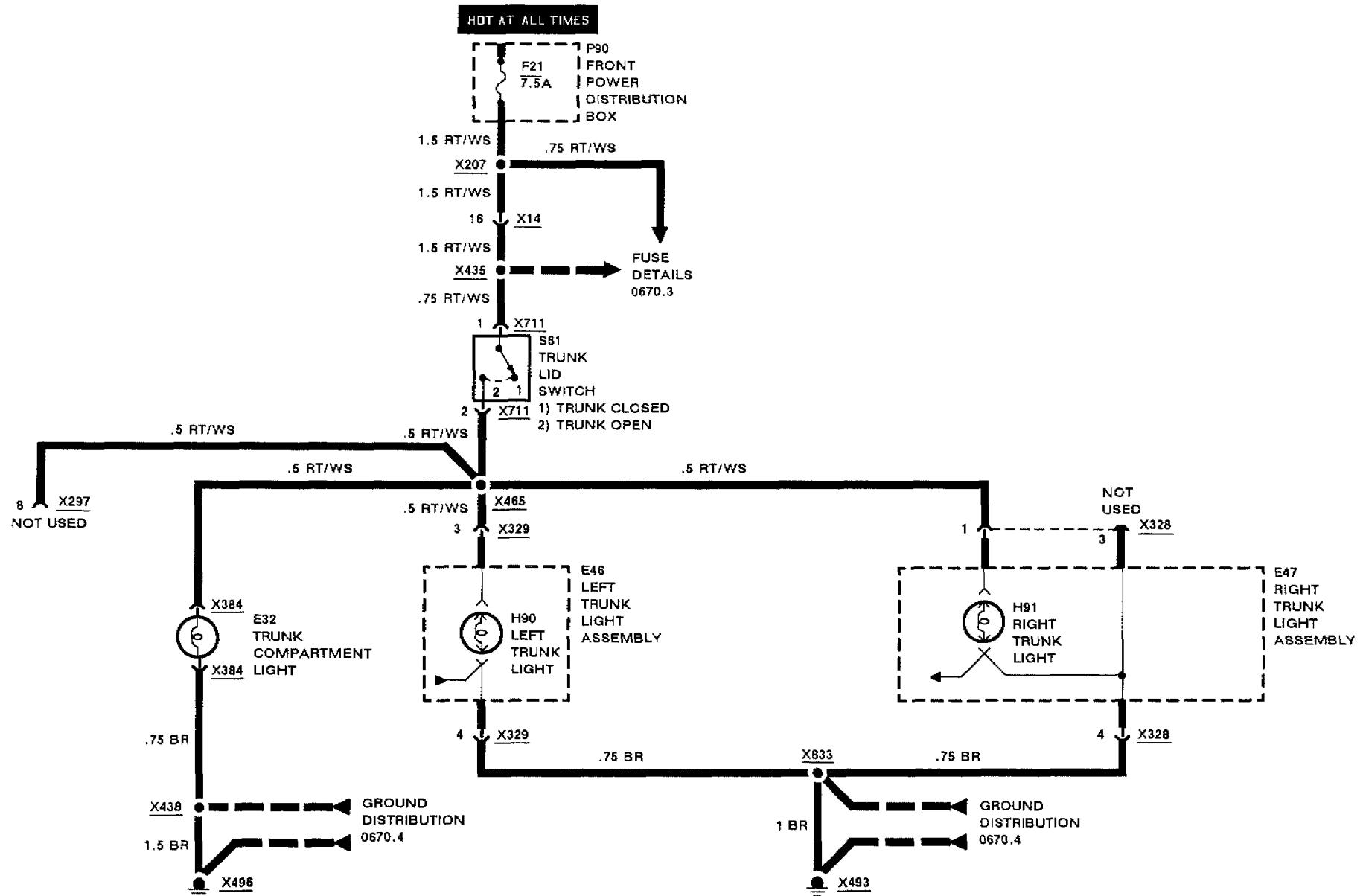
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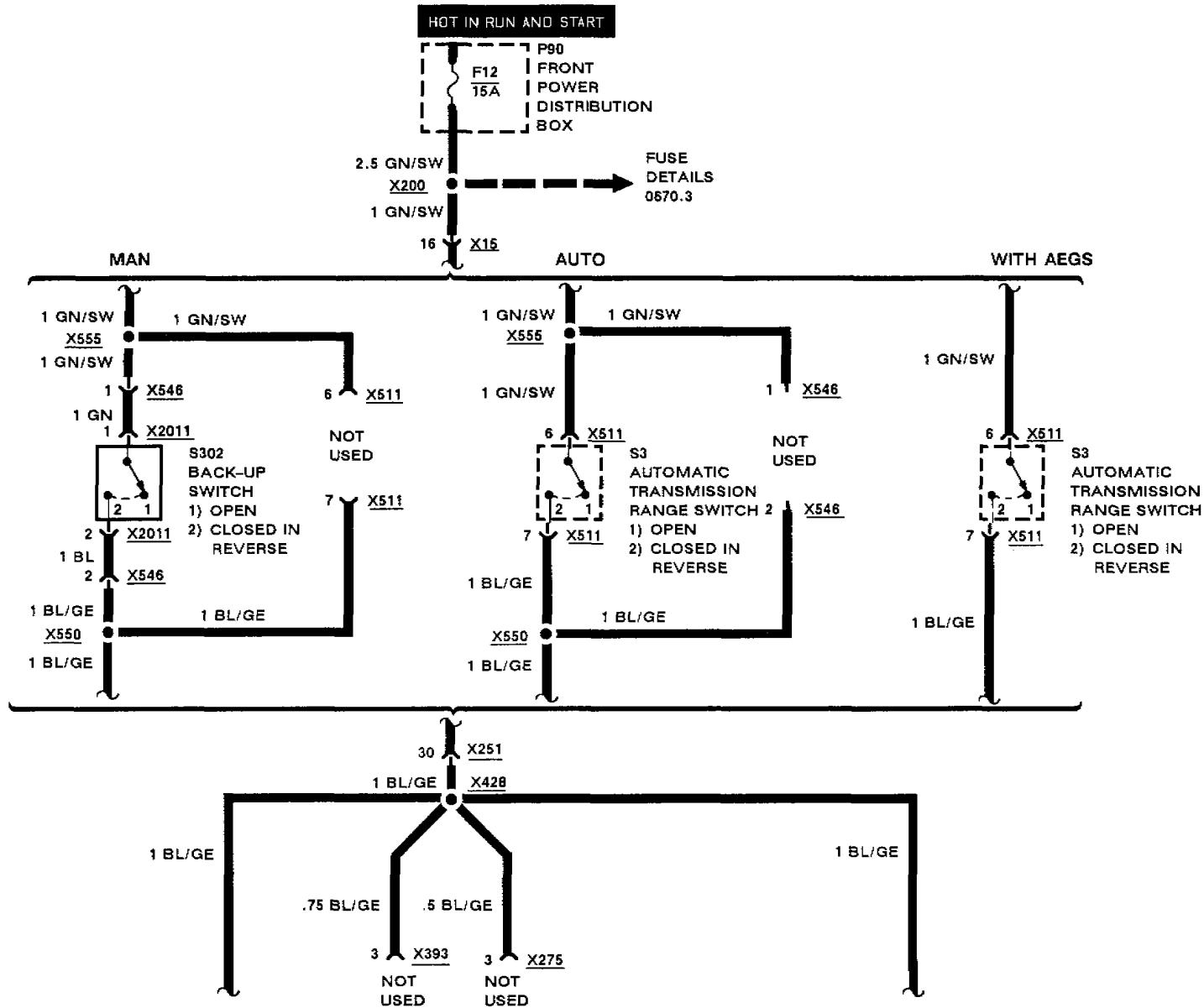
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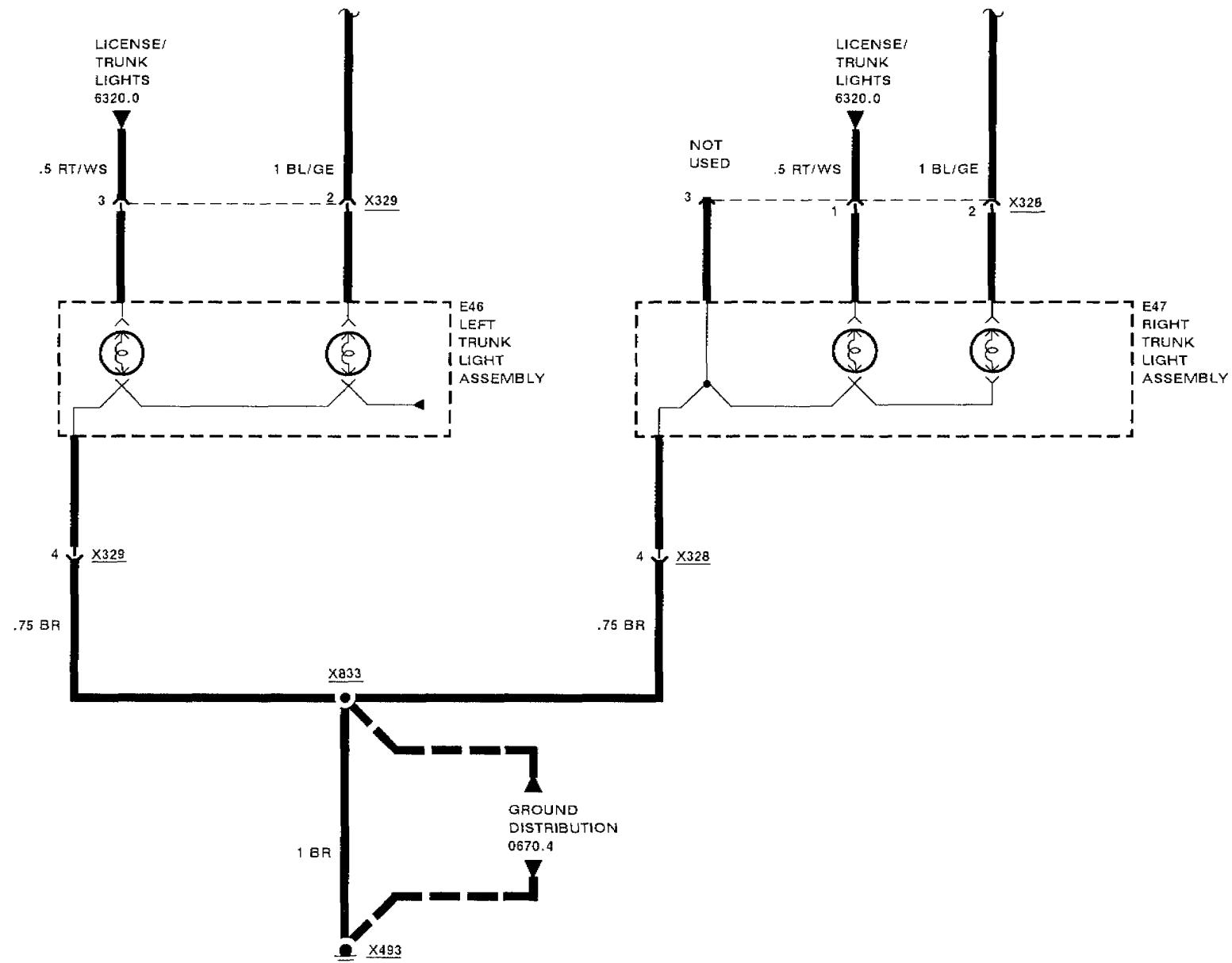
2/89

6320.0-01

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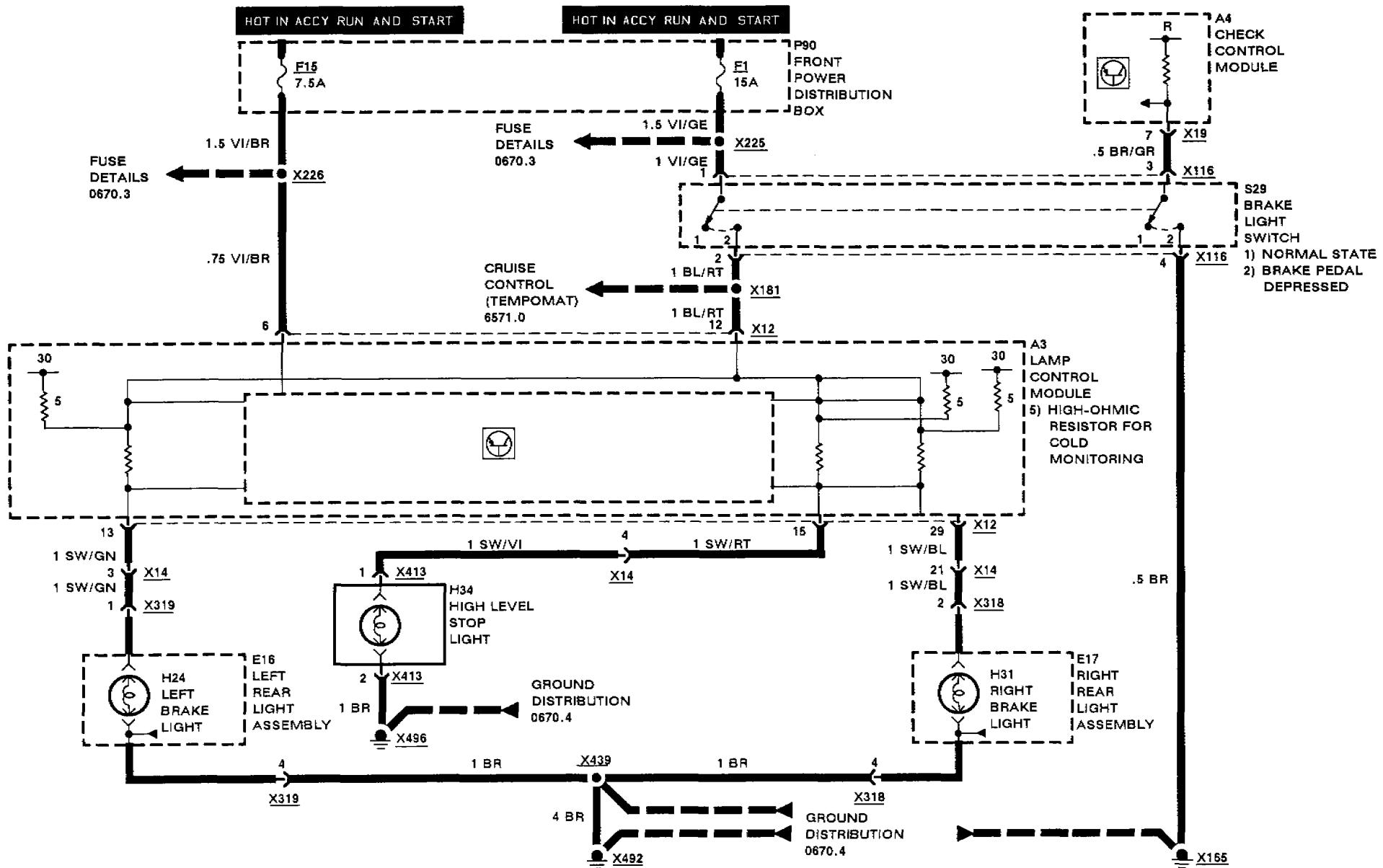






## BRAKE LIGHTS

2/89



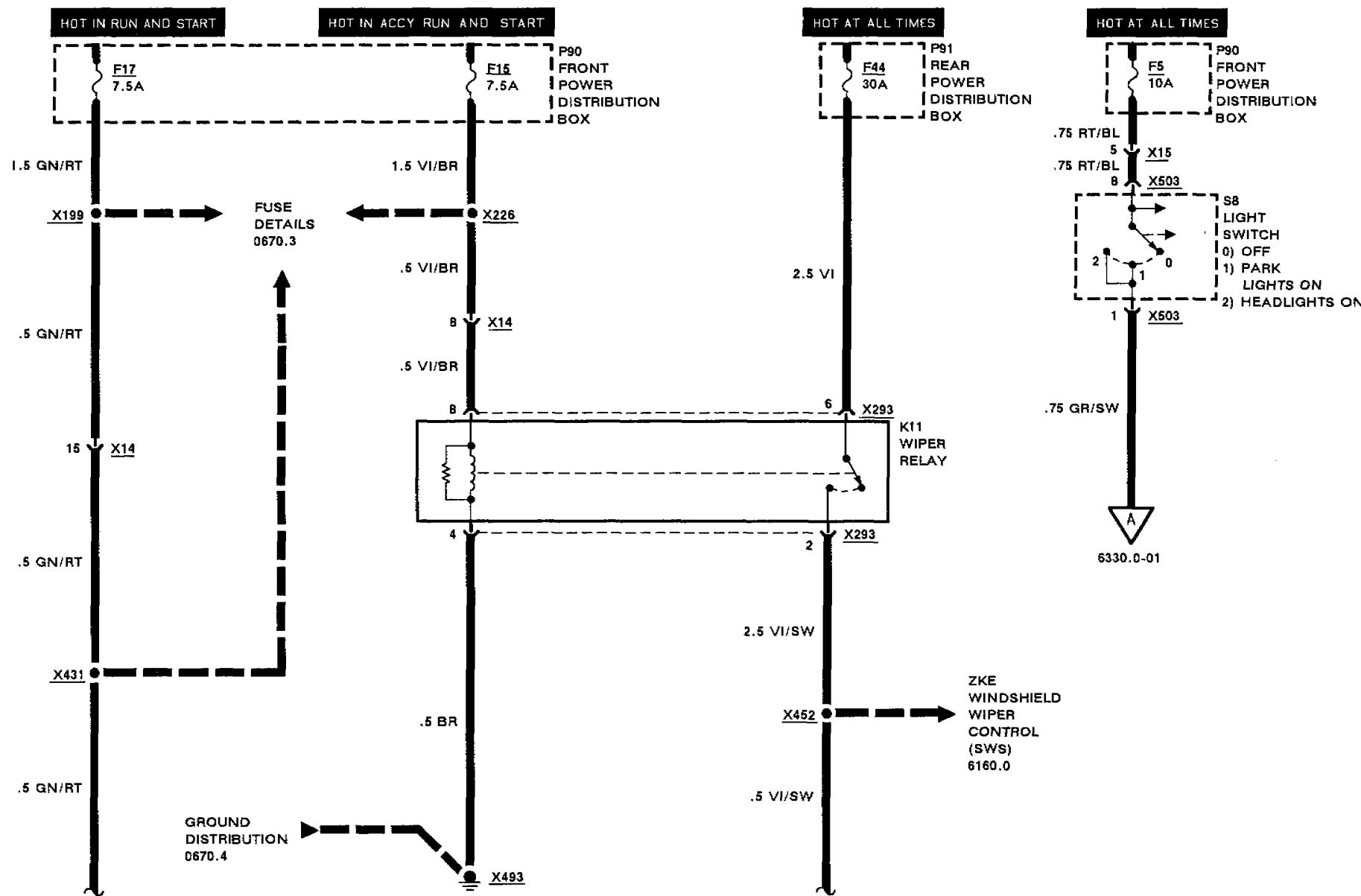
6325.0-00

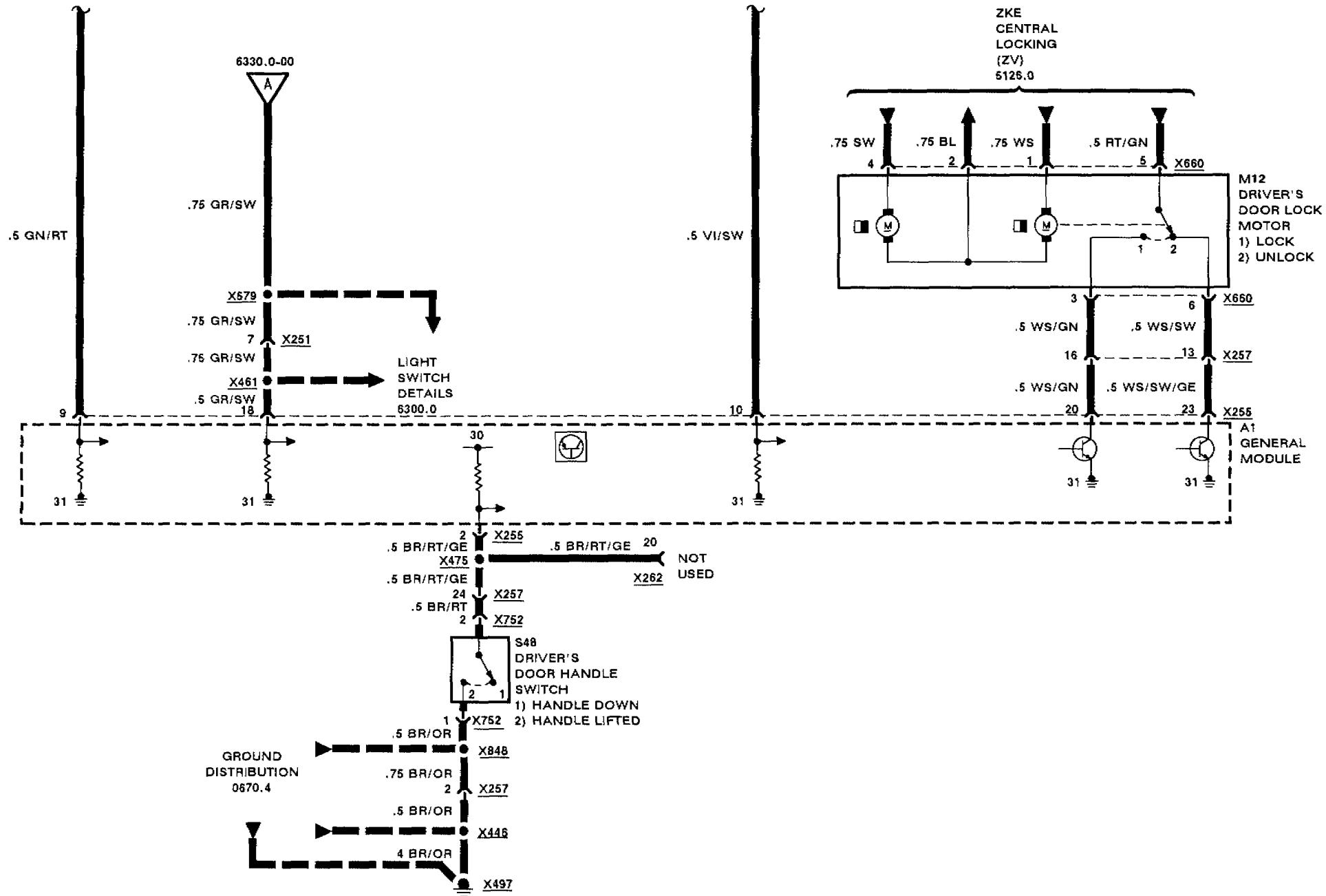
1989



# ZKE INTERIOR LIGHTS (IB)

## INPUT DETAILS

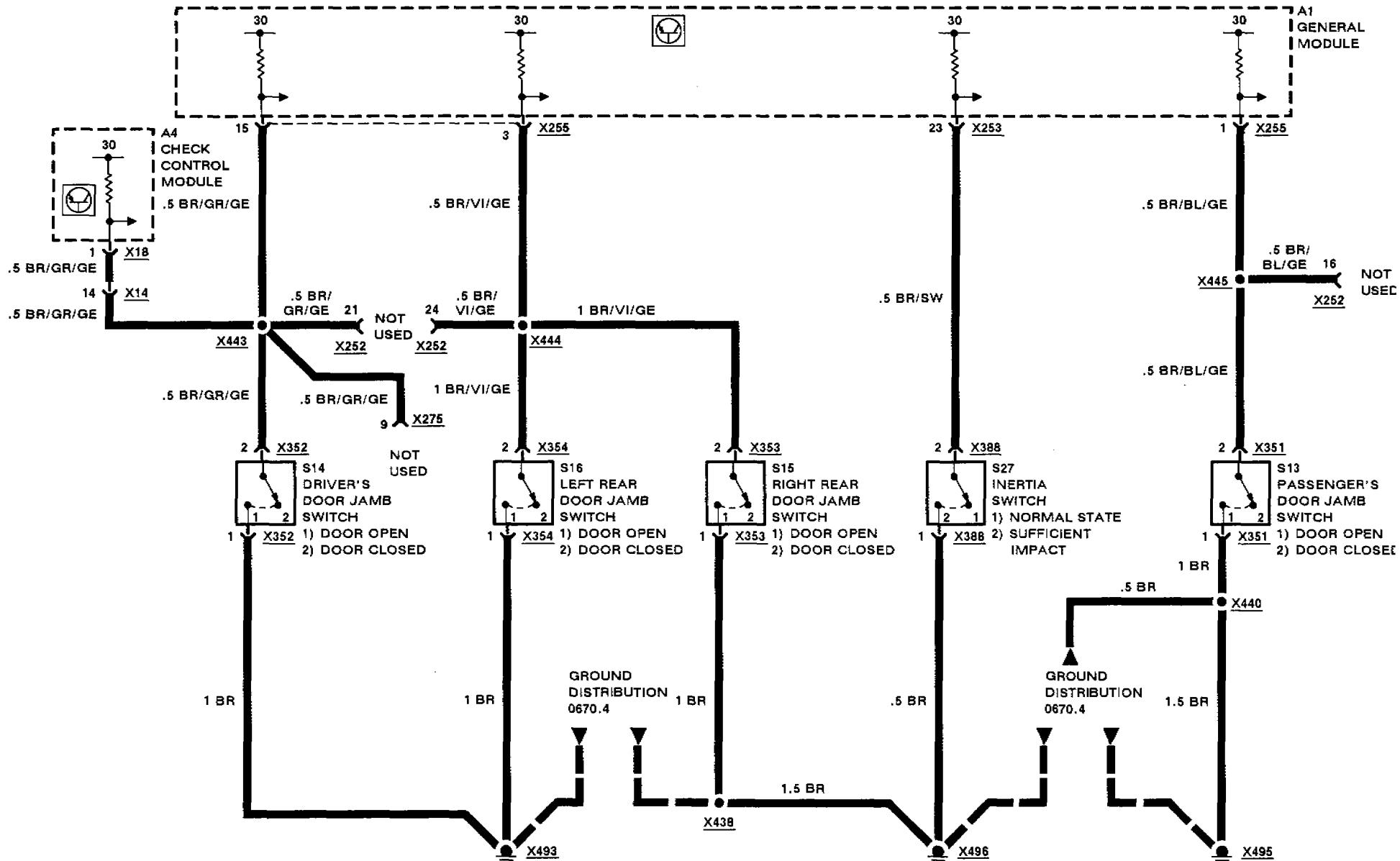






## ZKE INTERIOR LIGHTS (IB)

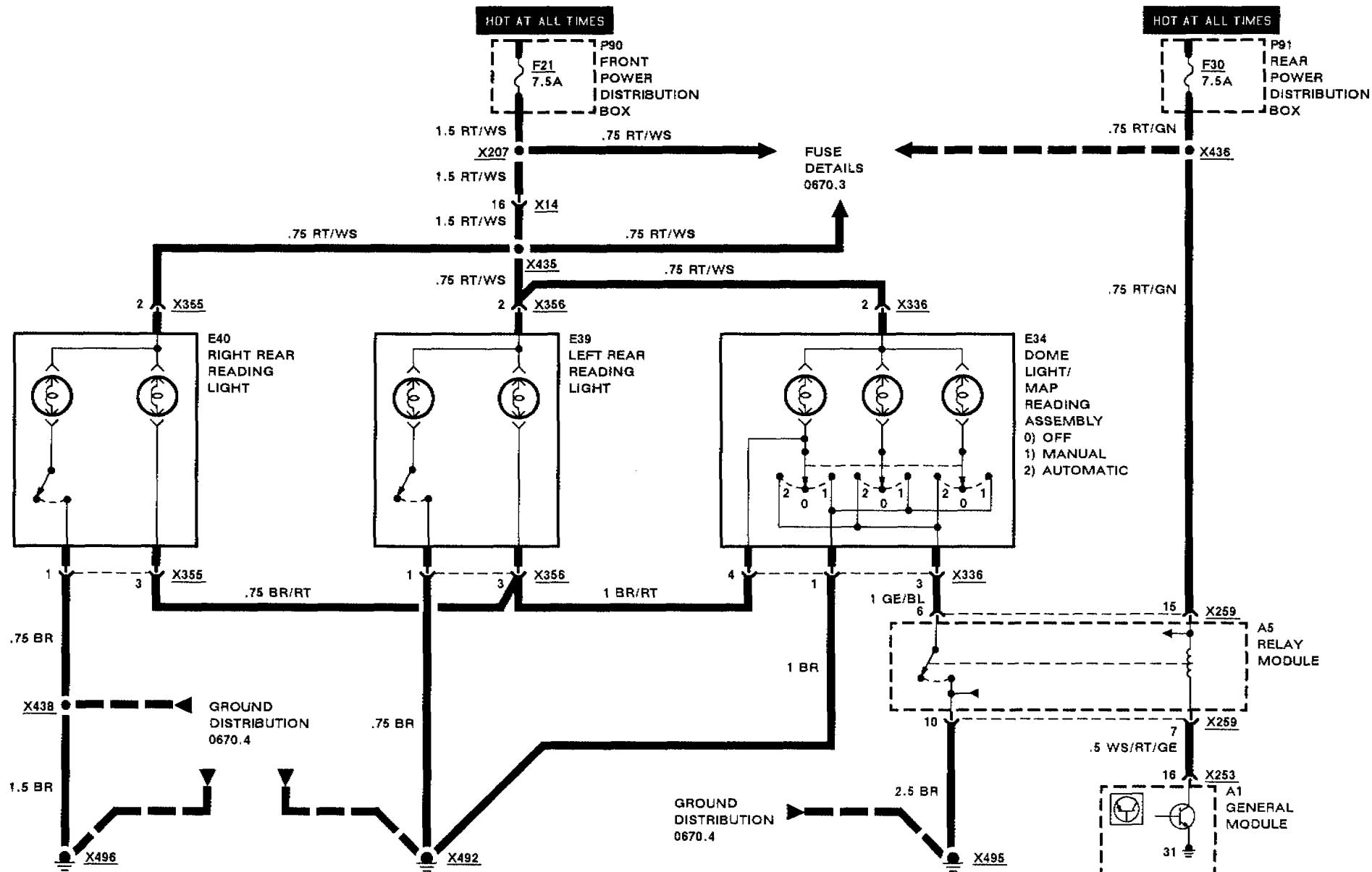
### INPUT DETAILS



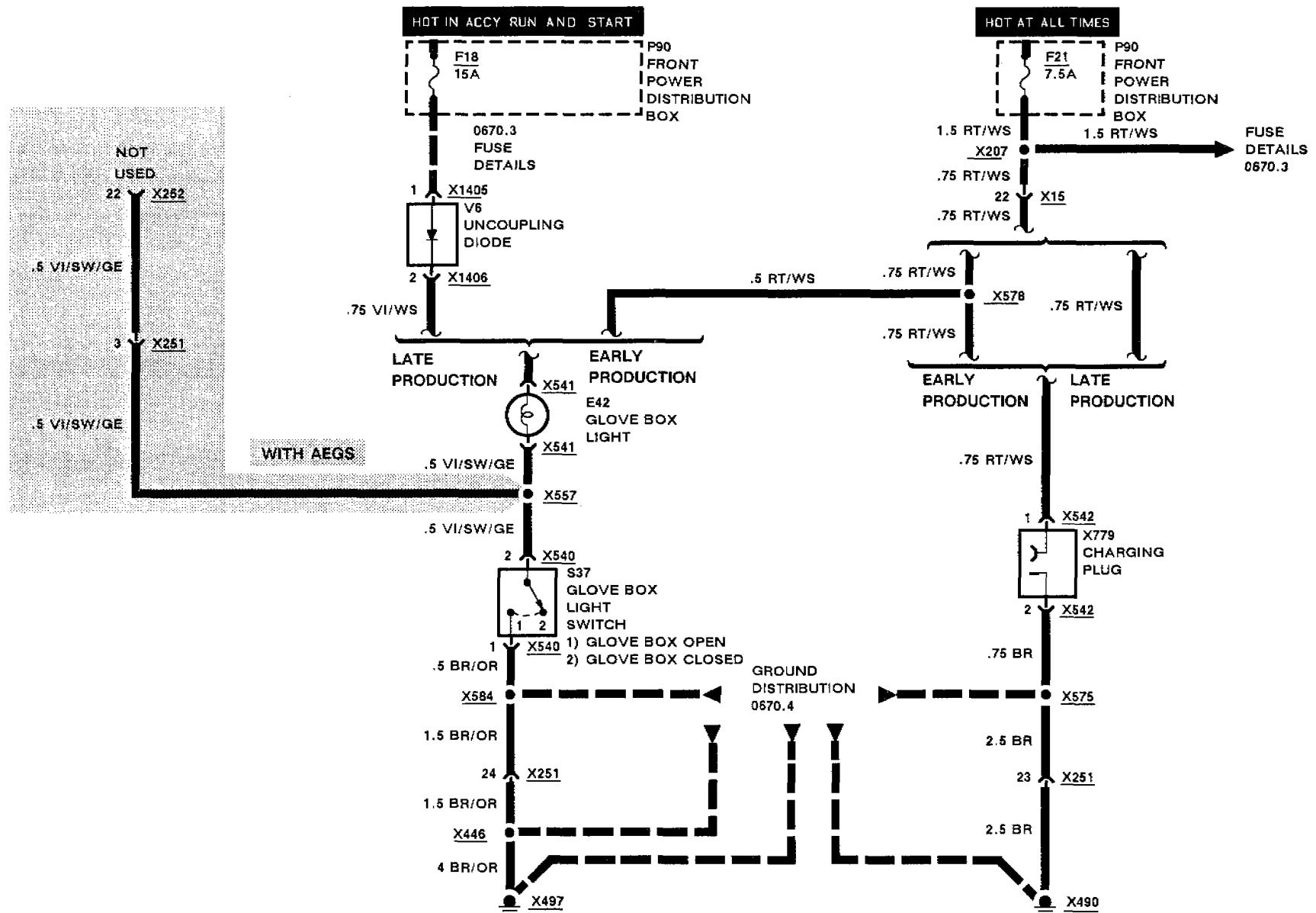


## ZKE INTERIOR LIGHTS (IB)

### OUTPUT DETAILS



## GLOVE BOX LIGHT/ CIGAR LIGHTER/ CHARGING PLUG

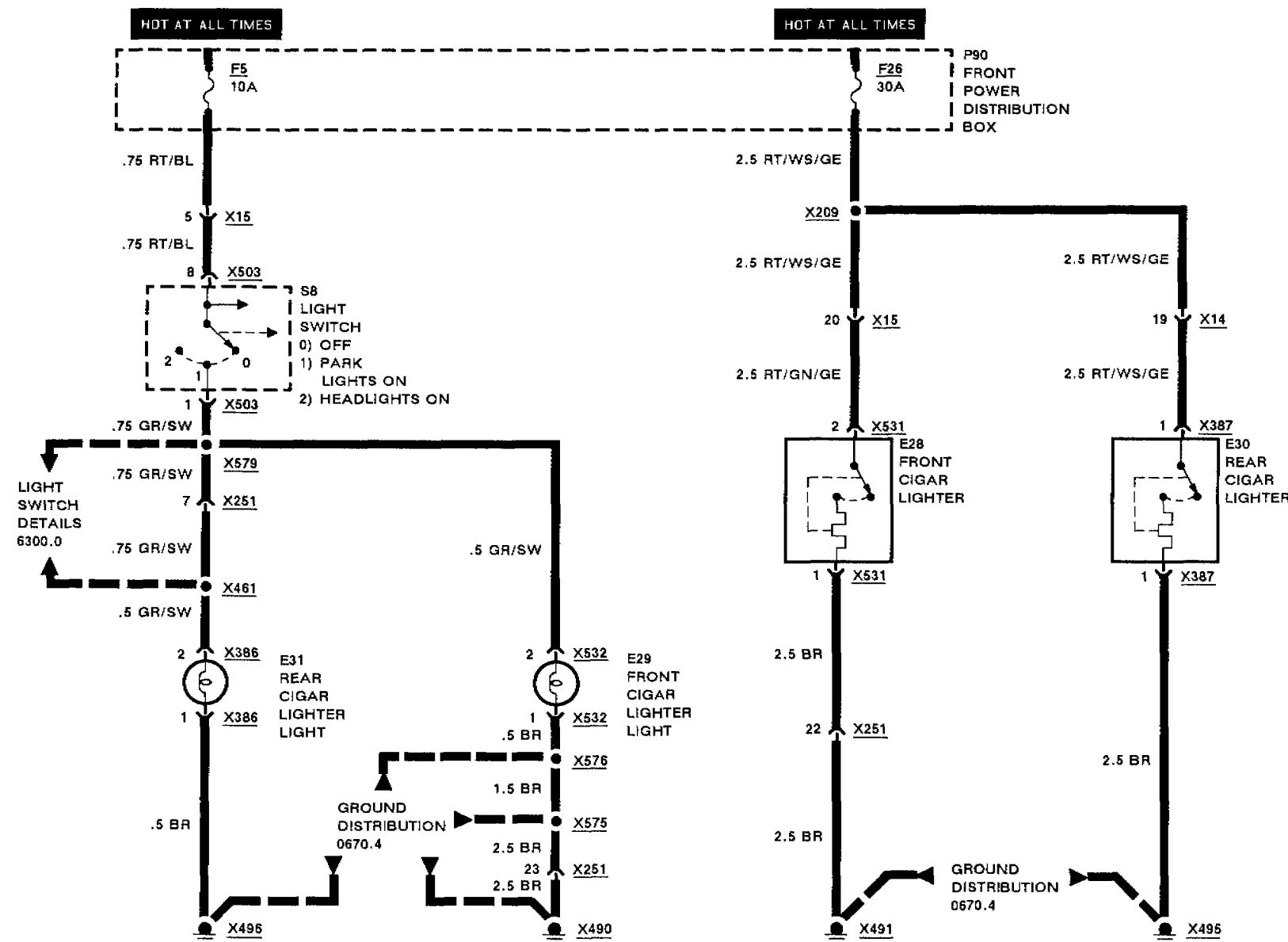




## GLOVE BOX LIGHT/ CIGAR LIGHTER/ CHARGING PLUG

2/89

6332.0-01

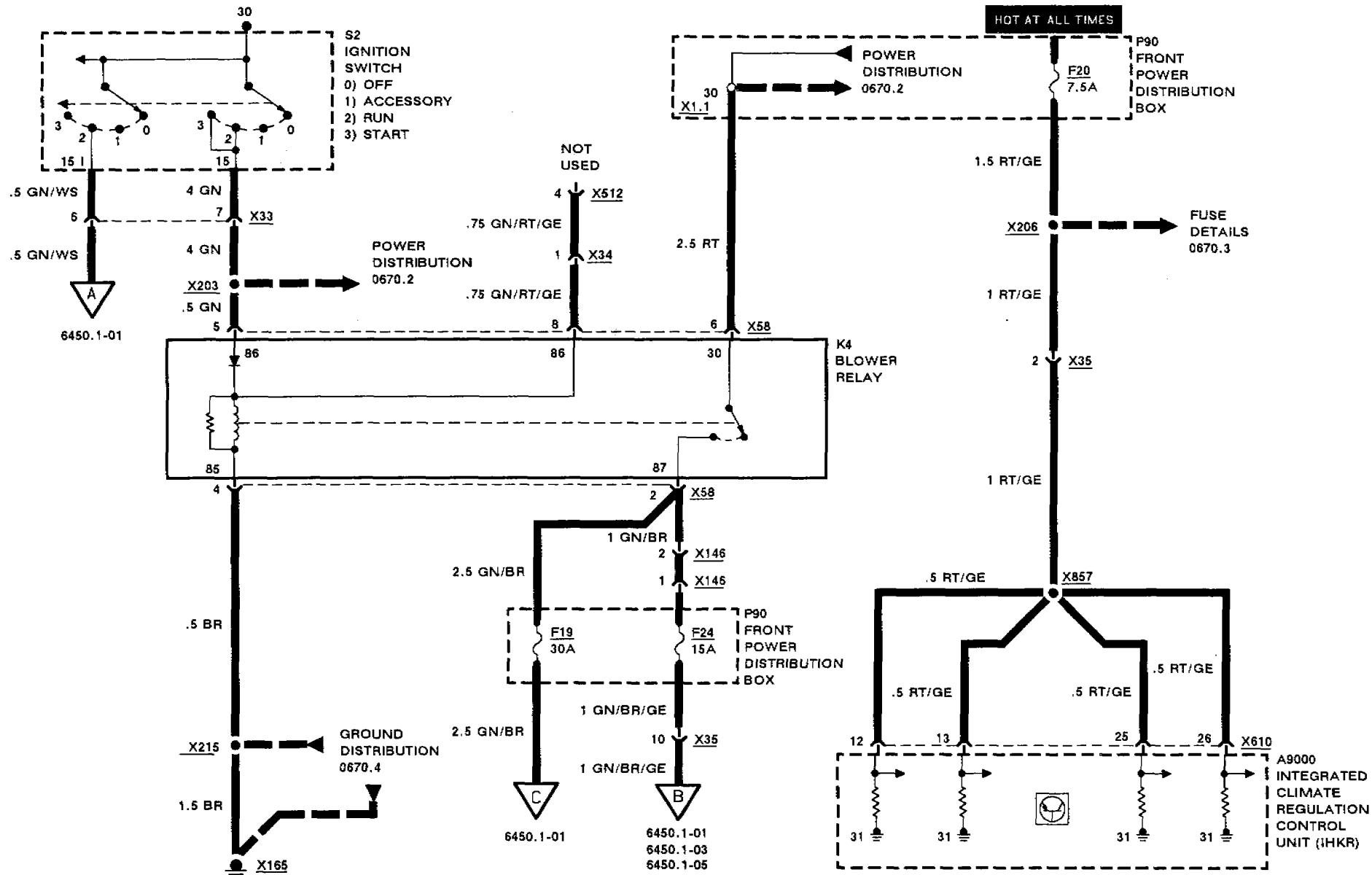


1989



# INTEGRATED CLIMATE REGULATION (IHKR)

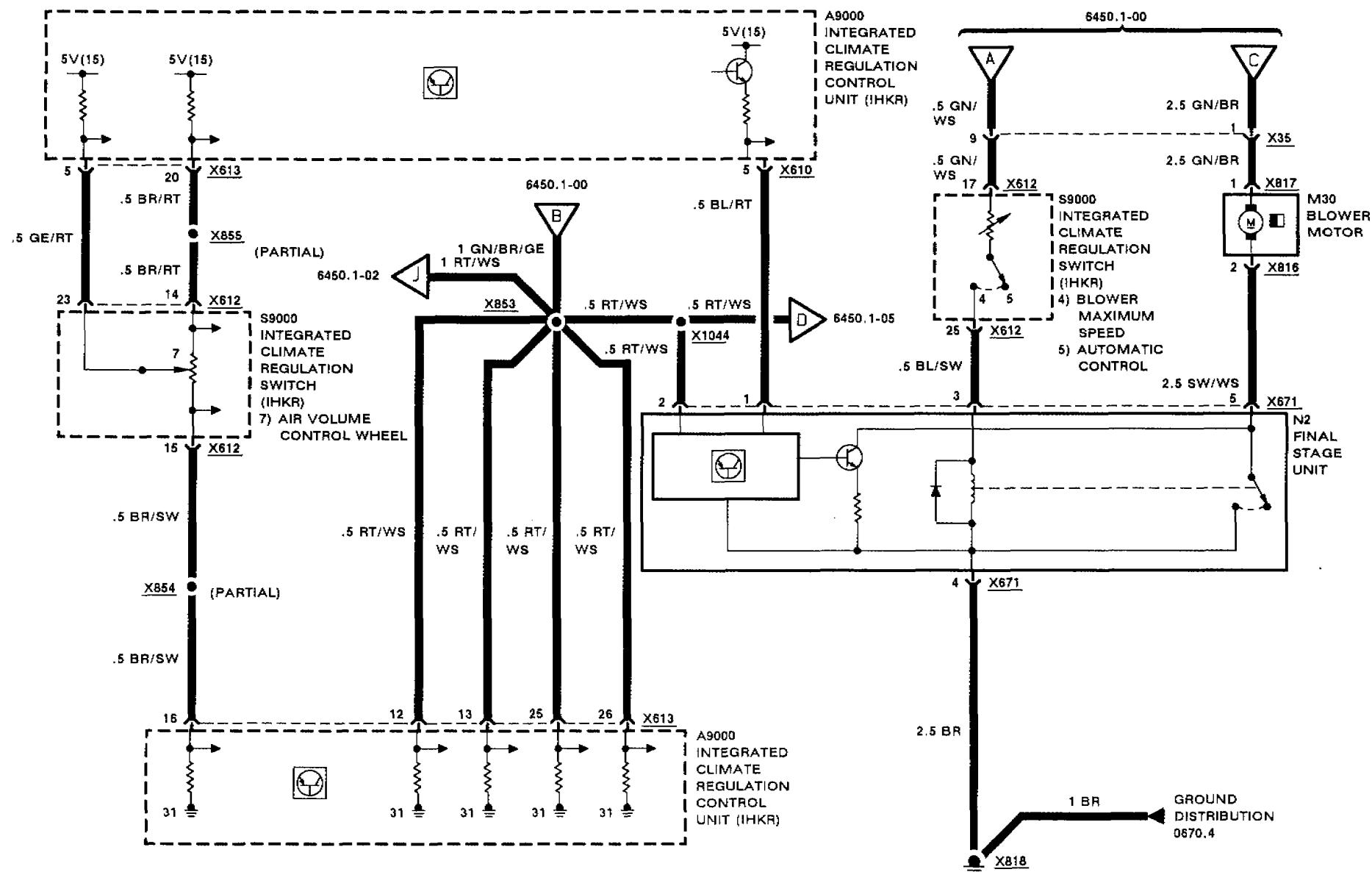
## POWER





# INTEGRATED CLIMATE REGULATION (IHKR)

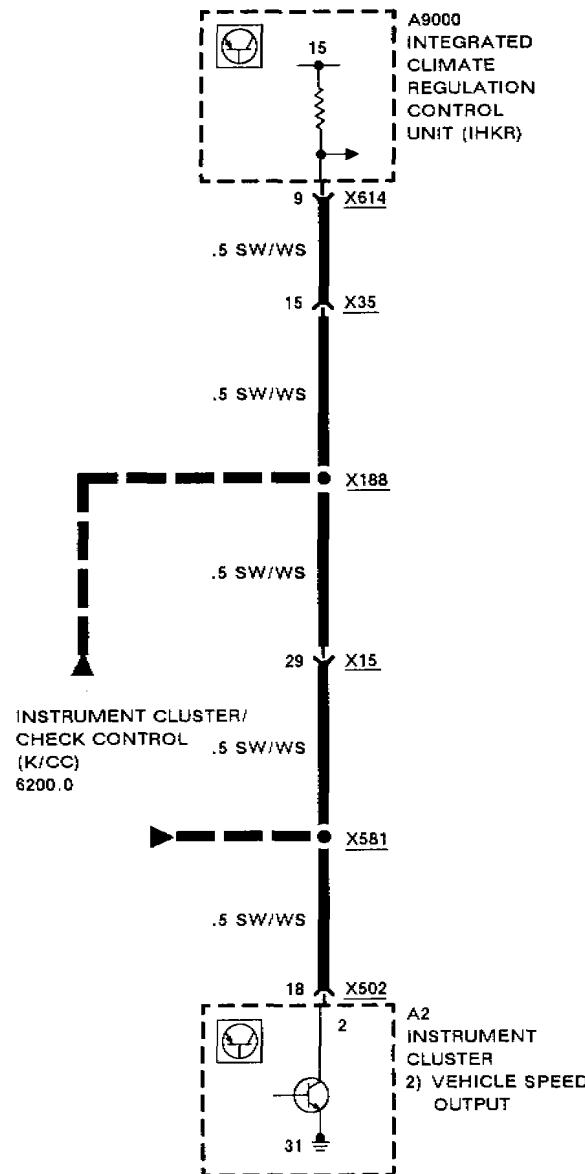
#### **BLOWER CONTROLS**



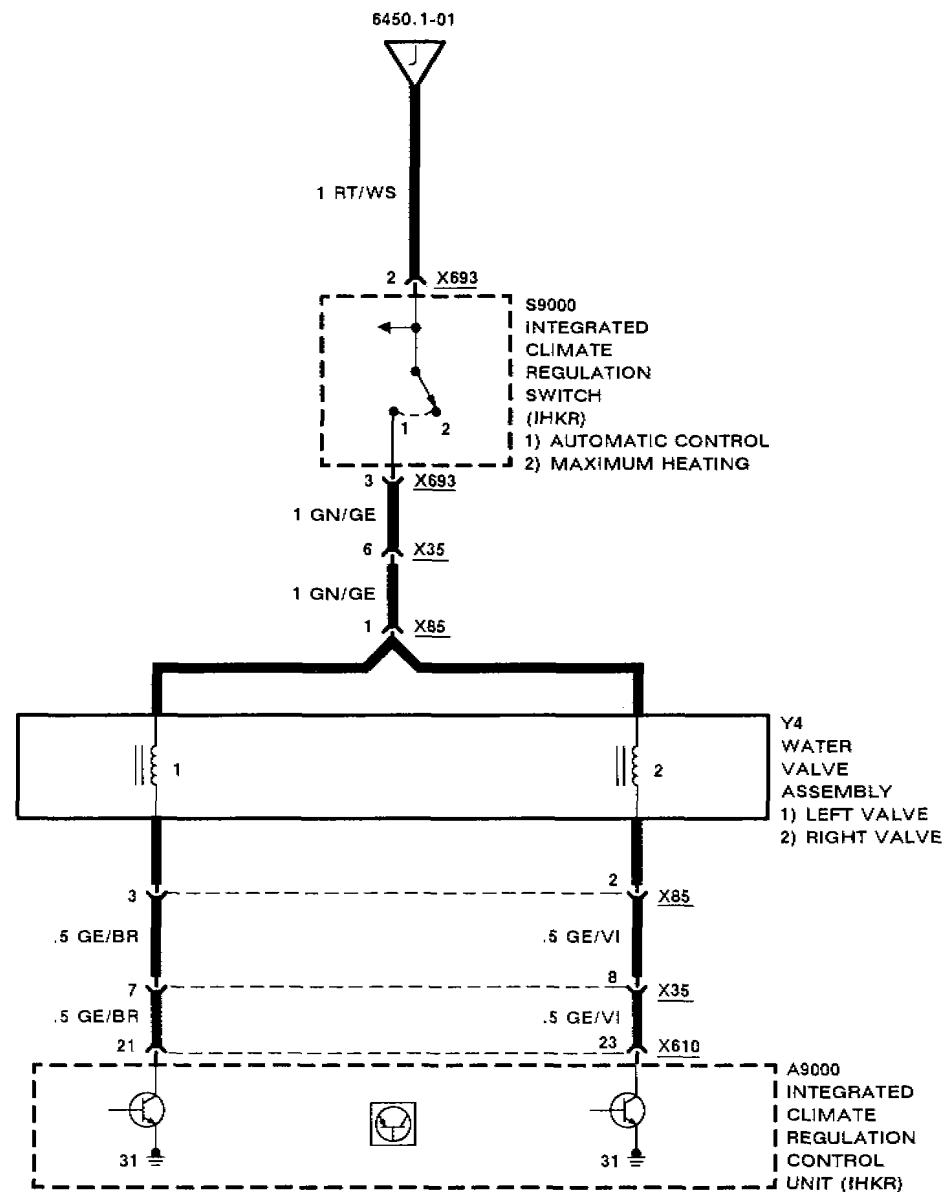


## INTEGRATED CLIMATE REGULATION (IHKR)

### BLOWER CONTROLS



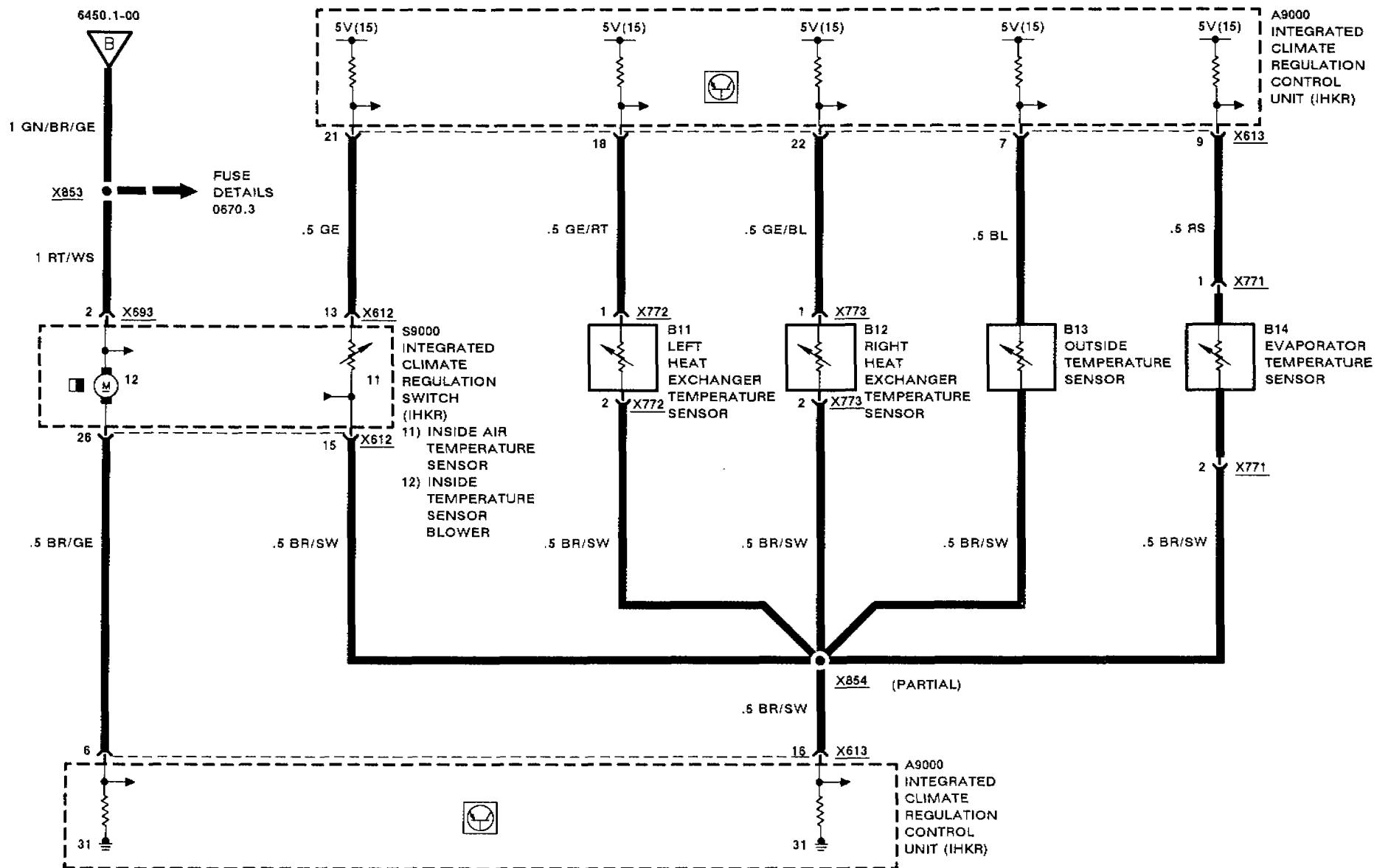
### WATER VALVES





## INTEGRATED CLIMATE REGULATION (IHKR)

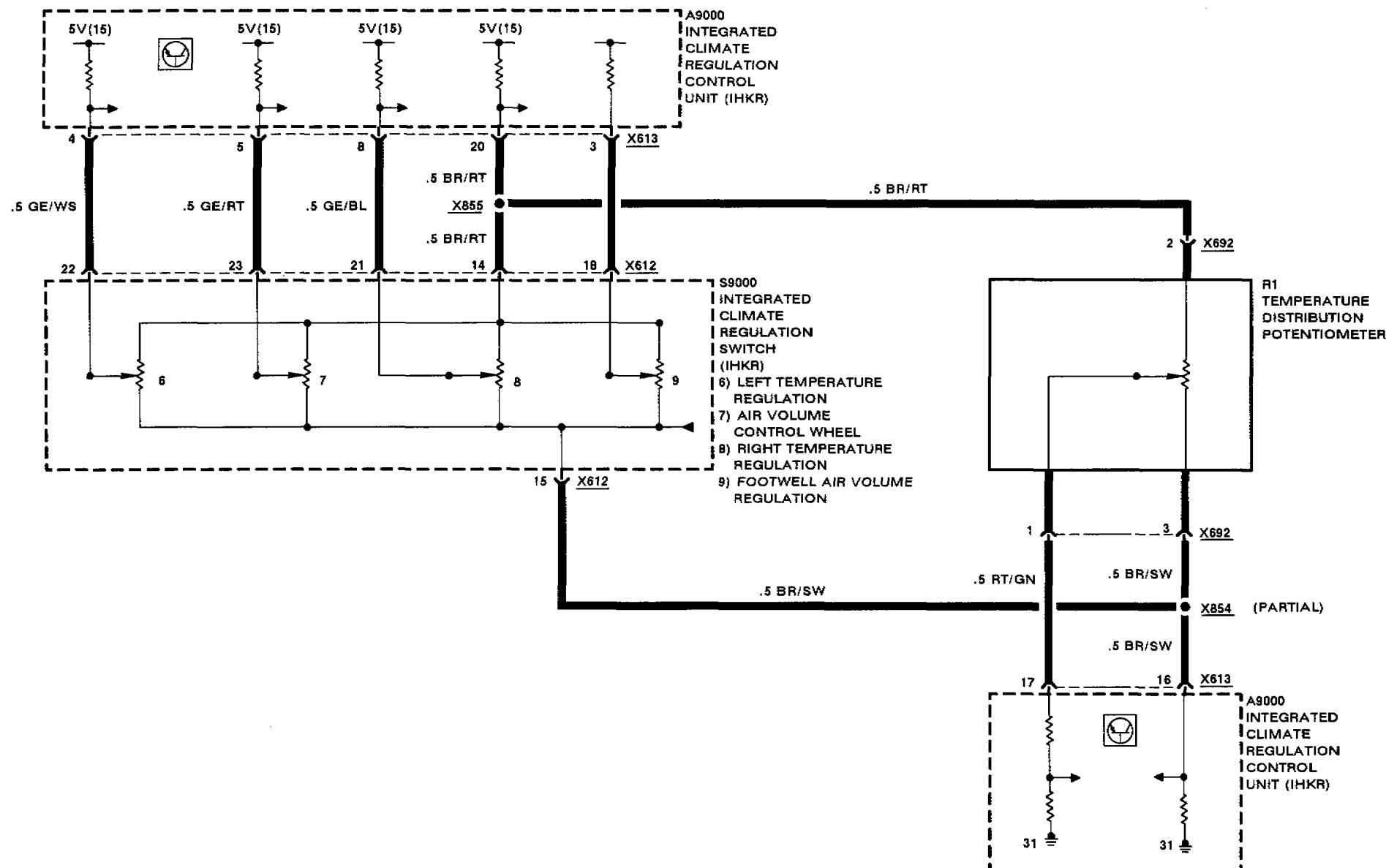
### TEMPERATURE CONTROLS





# INTEGRATED CLIMATE REGULATION (IHKR)

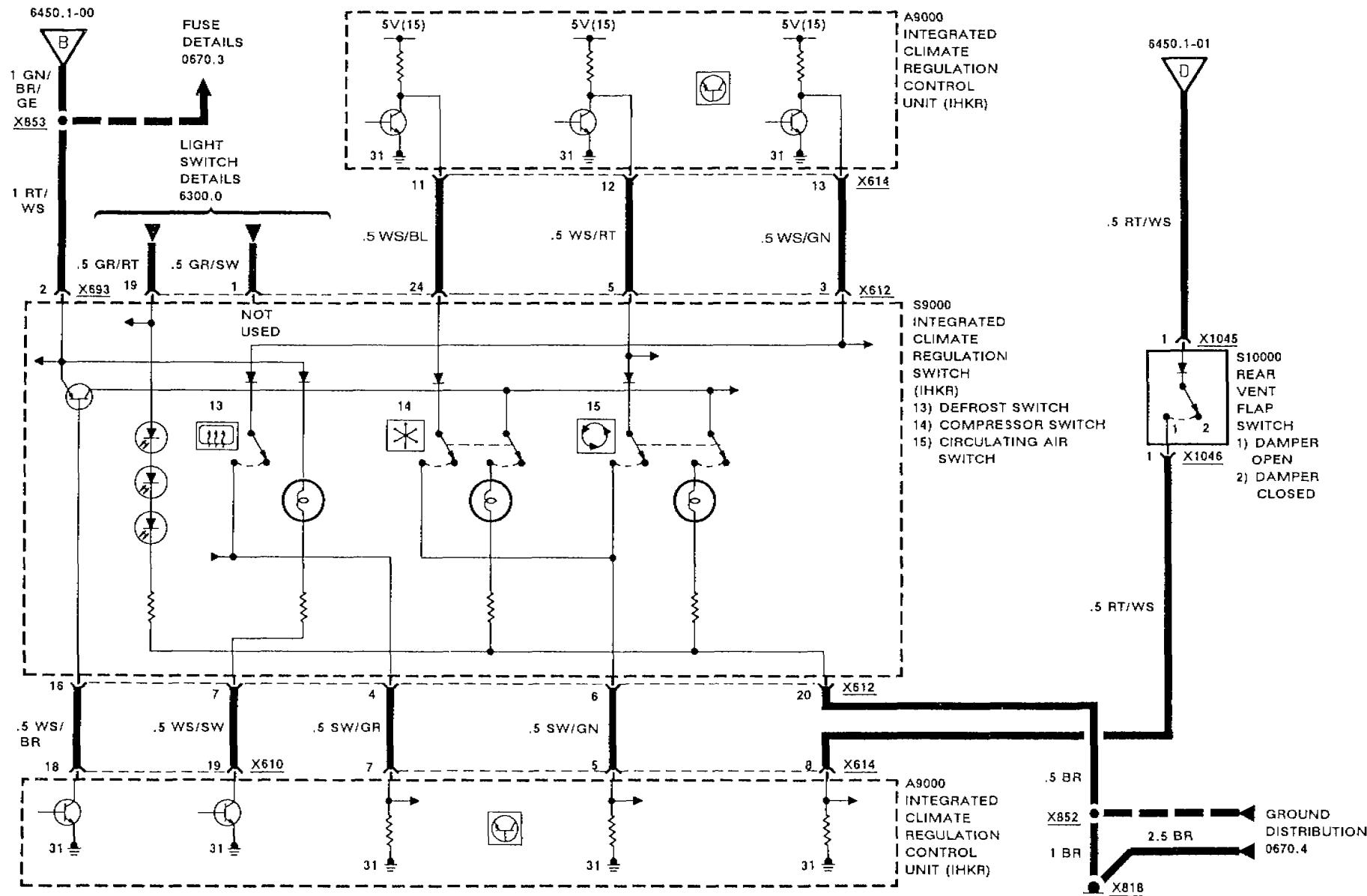
## TEMPERATURE CONTROLS





# INTEGRATED CLIMATE REGULATION (IHKR)

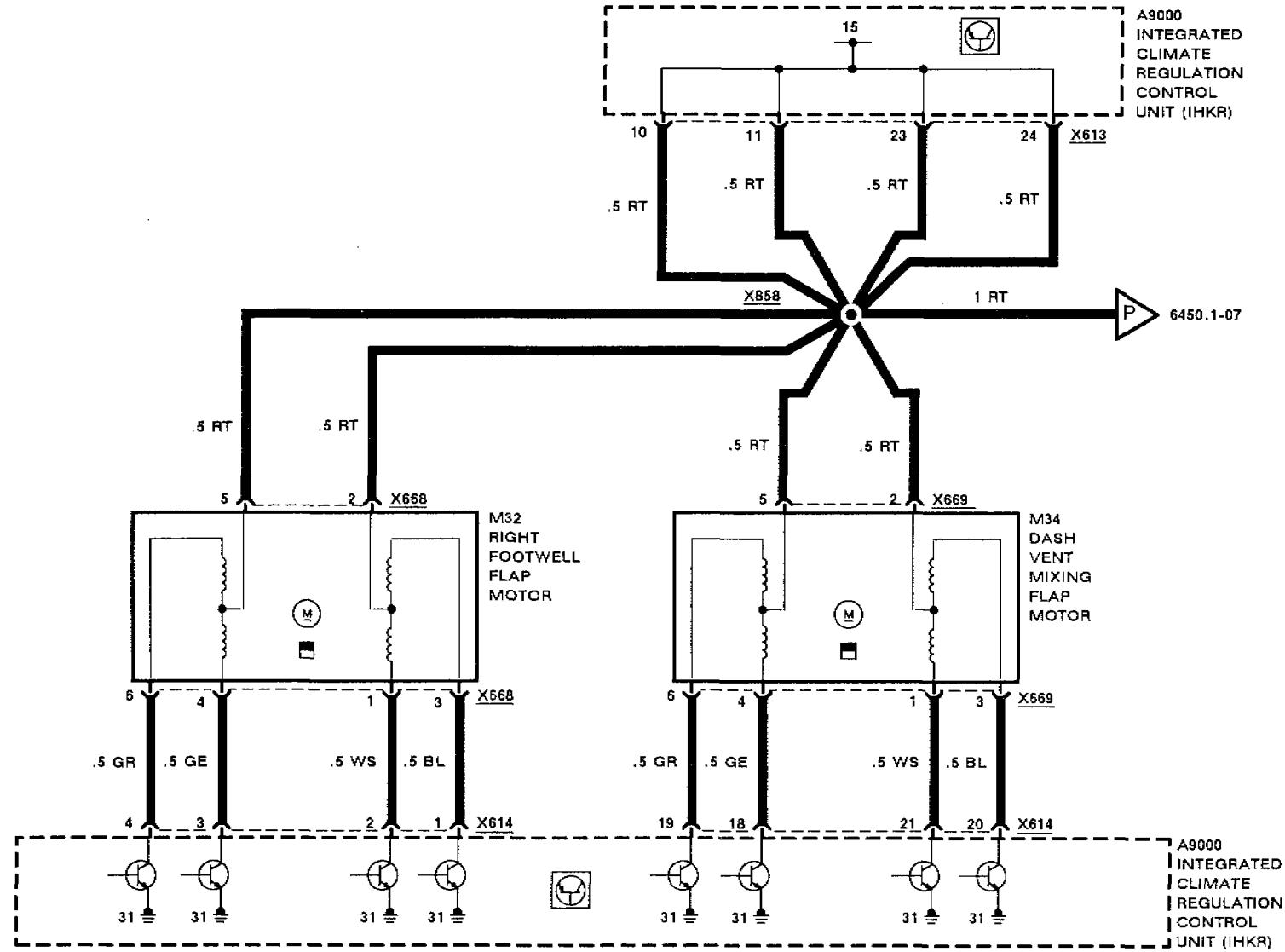
## AIR DELIVERY





## INTEGRATED CLIMATE REGULATION (IHKR)

### AIR DELIVERY

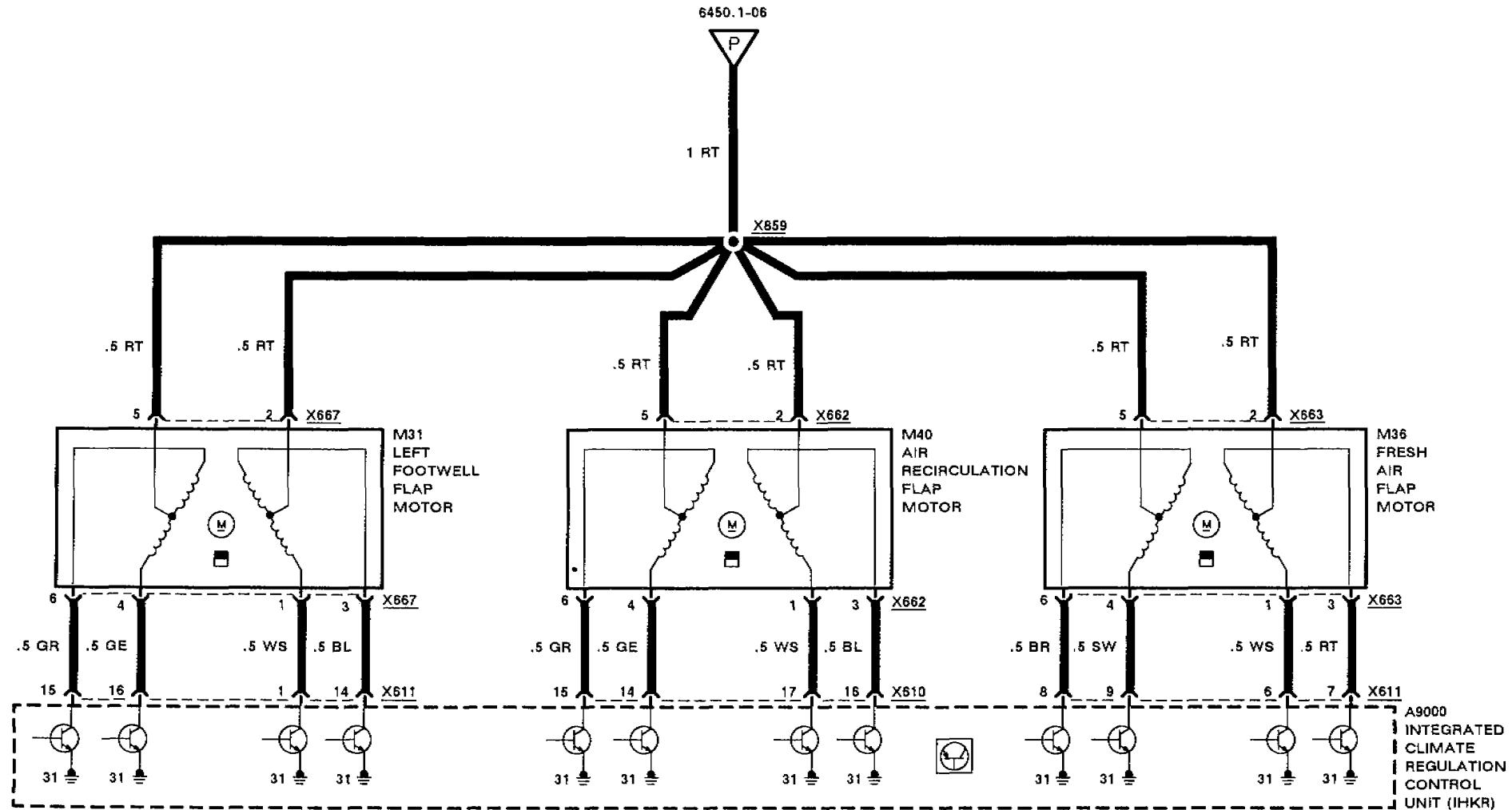




## INTEGRATED CLIMATE REGULATION (IHKR)

### AIR DELIVERY

2/89





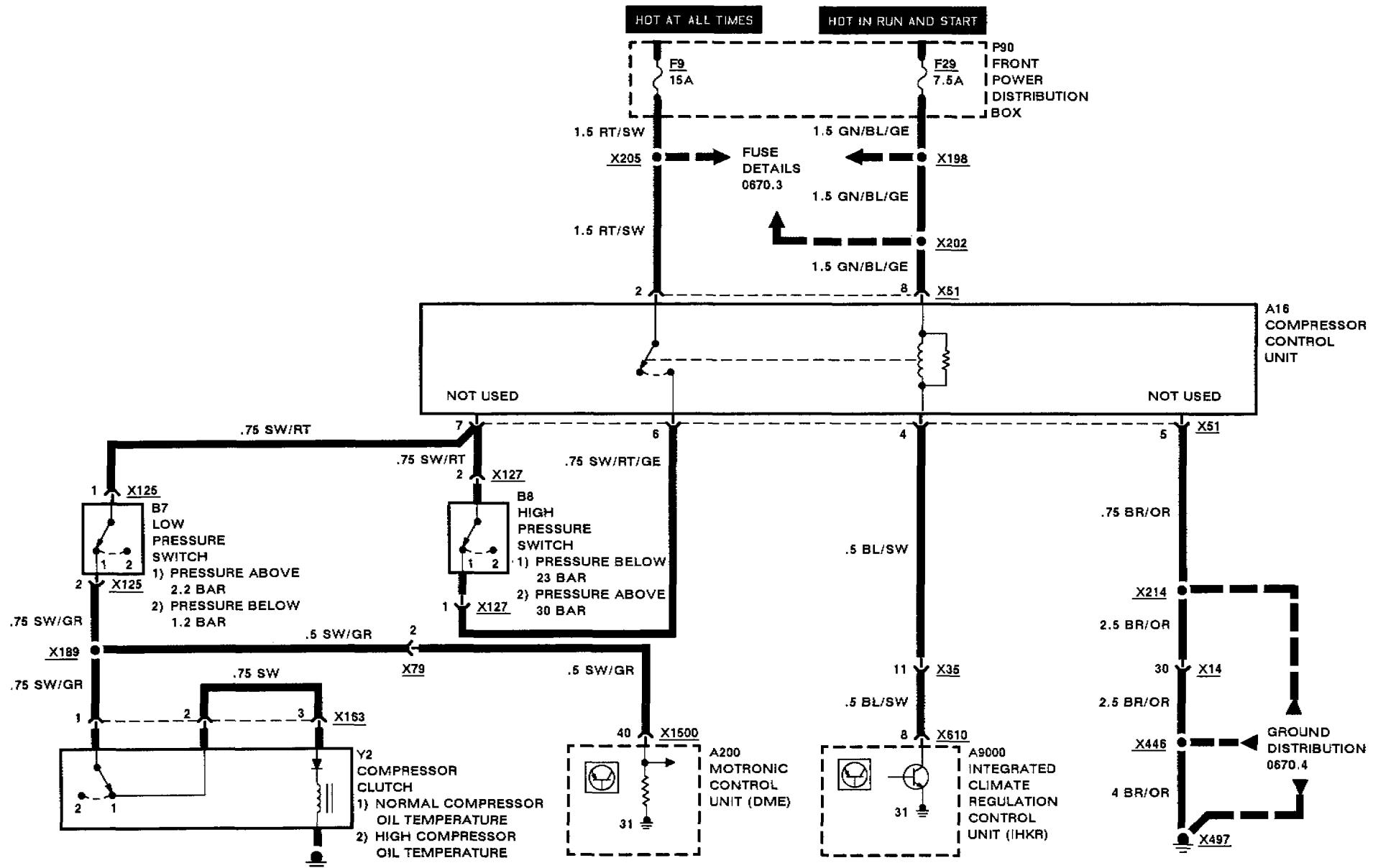
## INTEGRATED CLIMATE REGULATION (IHKR)

### COMPRESSOR CONTROLS

2/89

6450.1-08

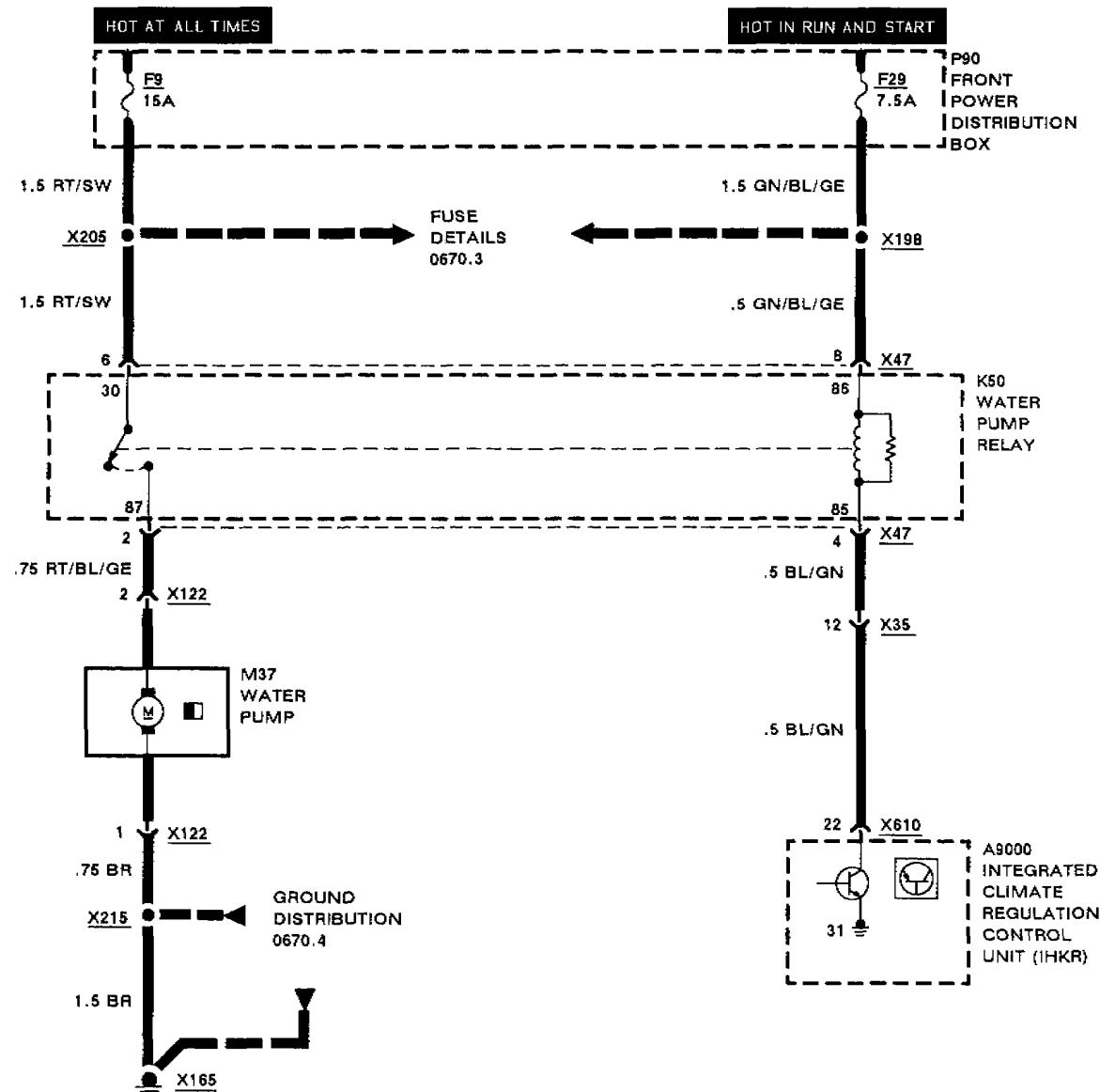
1989





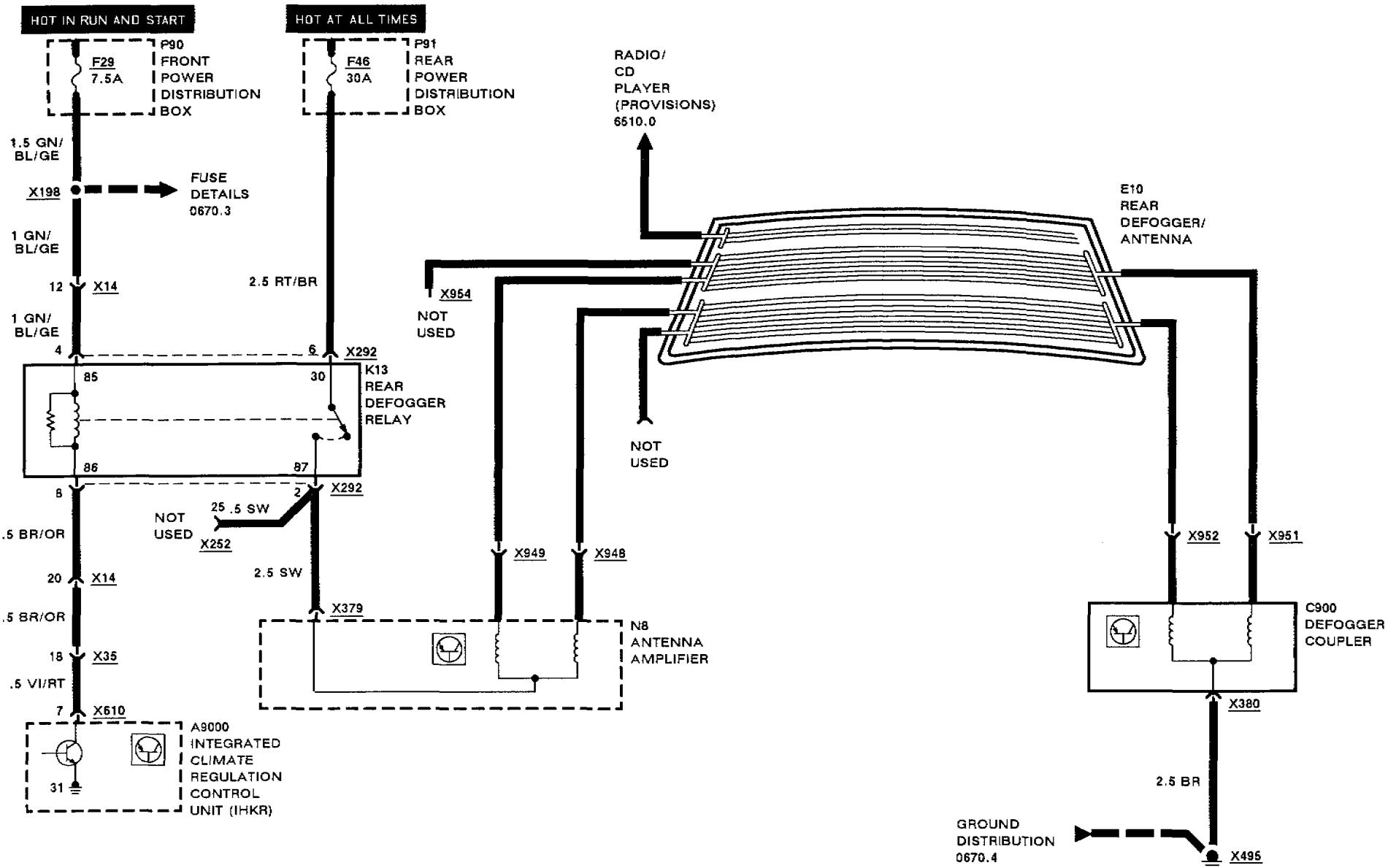
## INTEGRATED CLIMATE REGULATION (IHKR)

### AUXILIARY WATER PUMP



## INTEGRATED CLIMATE REGULATION (IHKR)

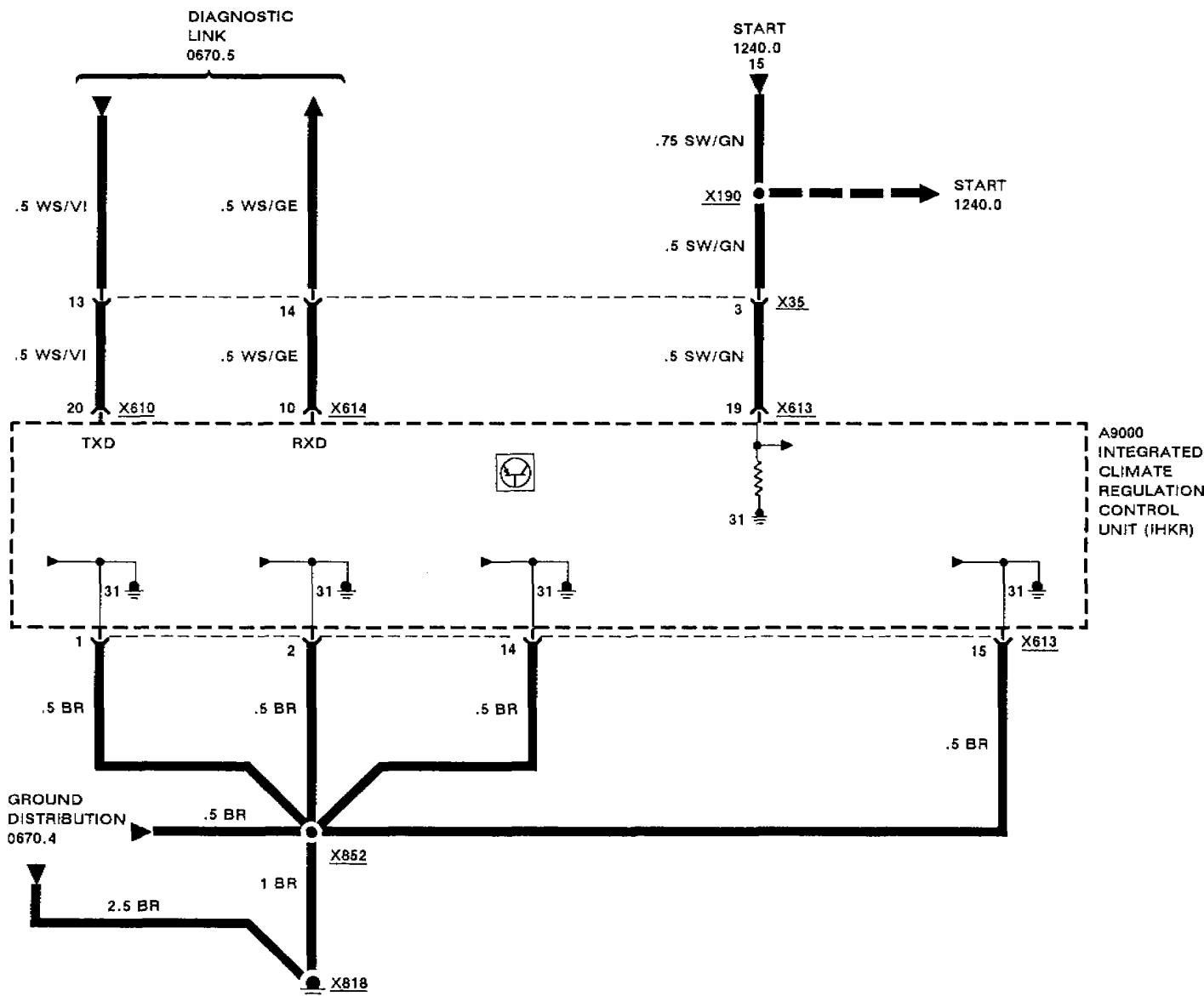
## REAR WINDOW DEFOGGER

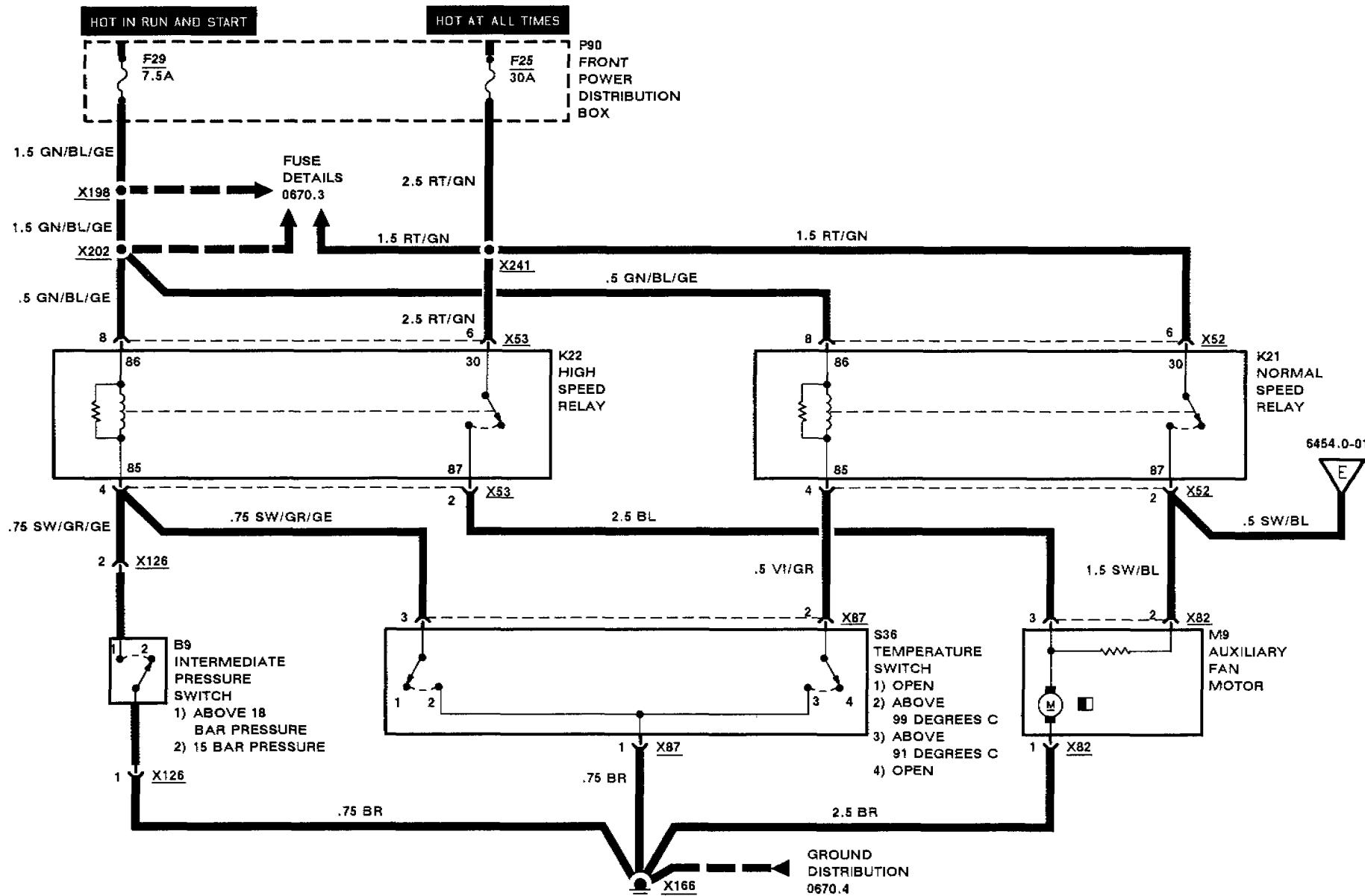




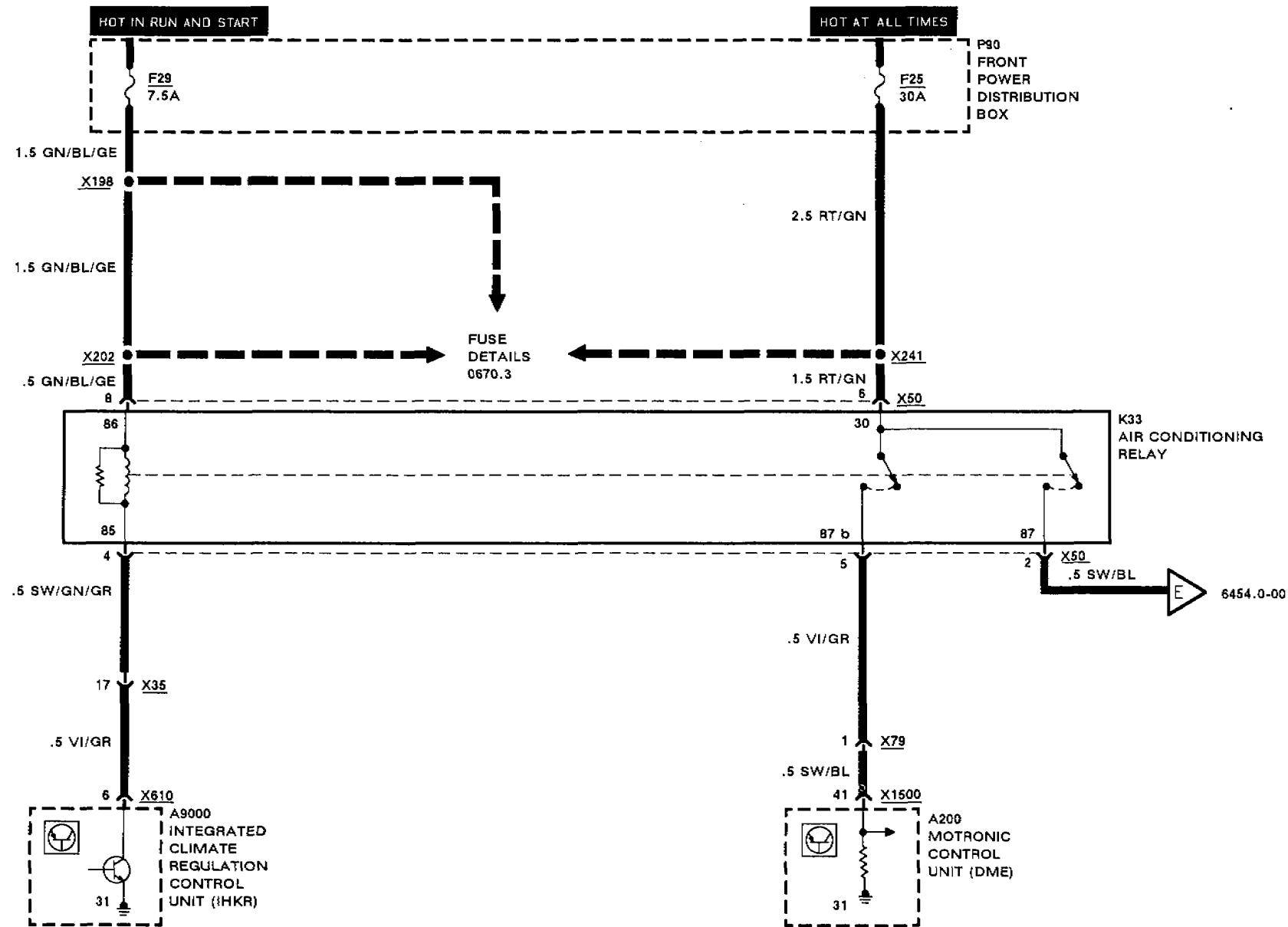
## INTEGRATED CLIMATE REGULATION (IHKR)

### DIAGNOSTIC LINK AND STARTER INPUT





## AUXILIARY FAN

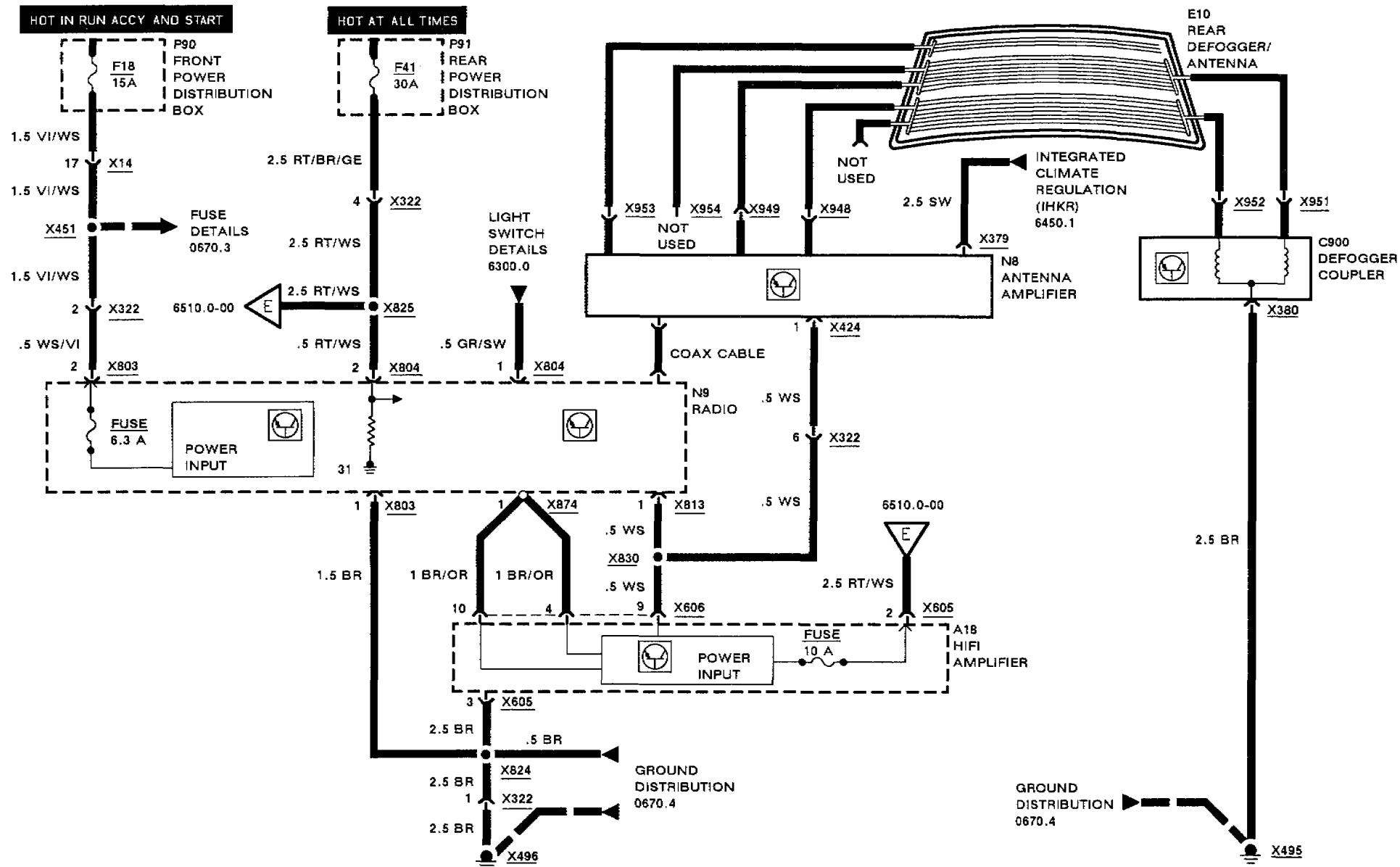




#### **RADIO/ CD PLAYER (PROVISIONS)**

#### HIFI, TEN SPEAKER SYSTEM

68/2



6510.0-00

1986



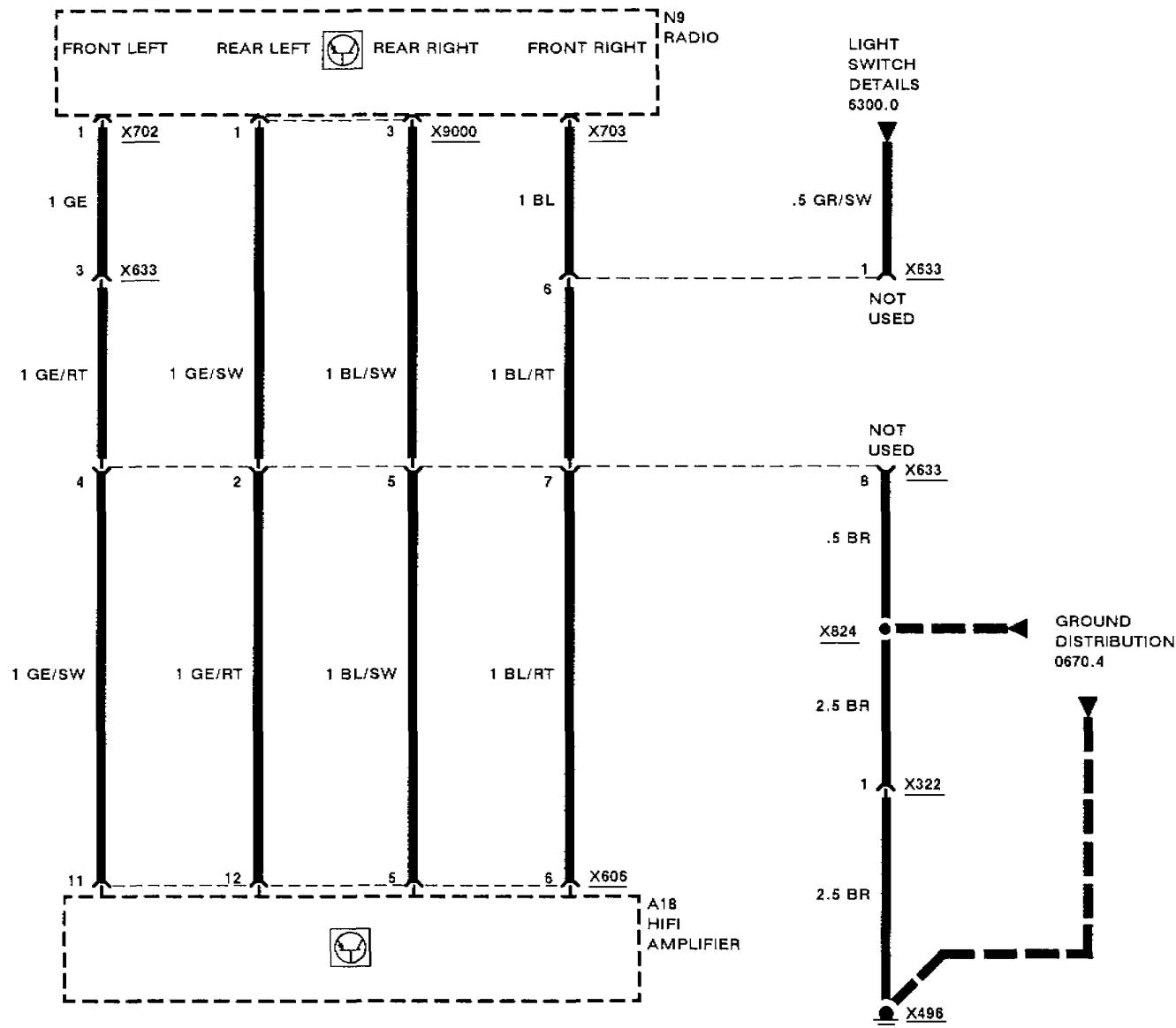
## RADIO/ CD PLAYER (PROVISIONS)

HIFI, TEN SPEAKER SYSTEM

2/89

6510.0-01

1989

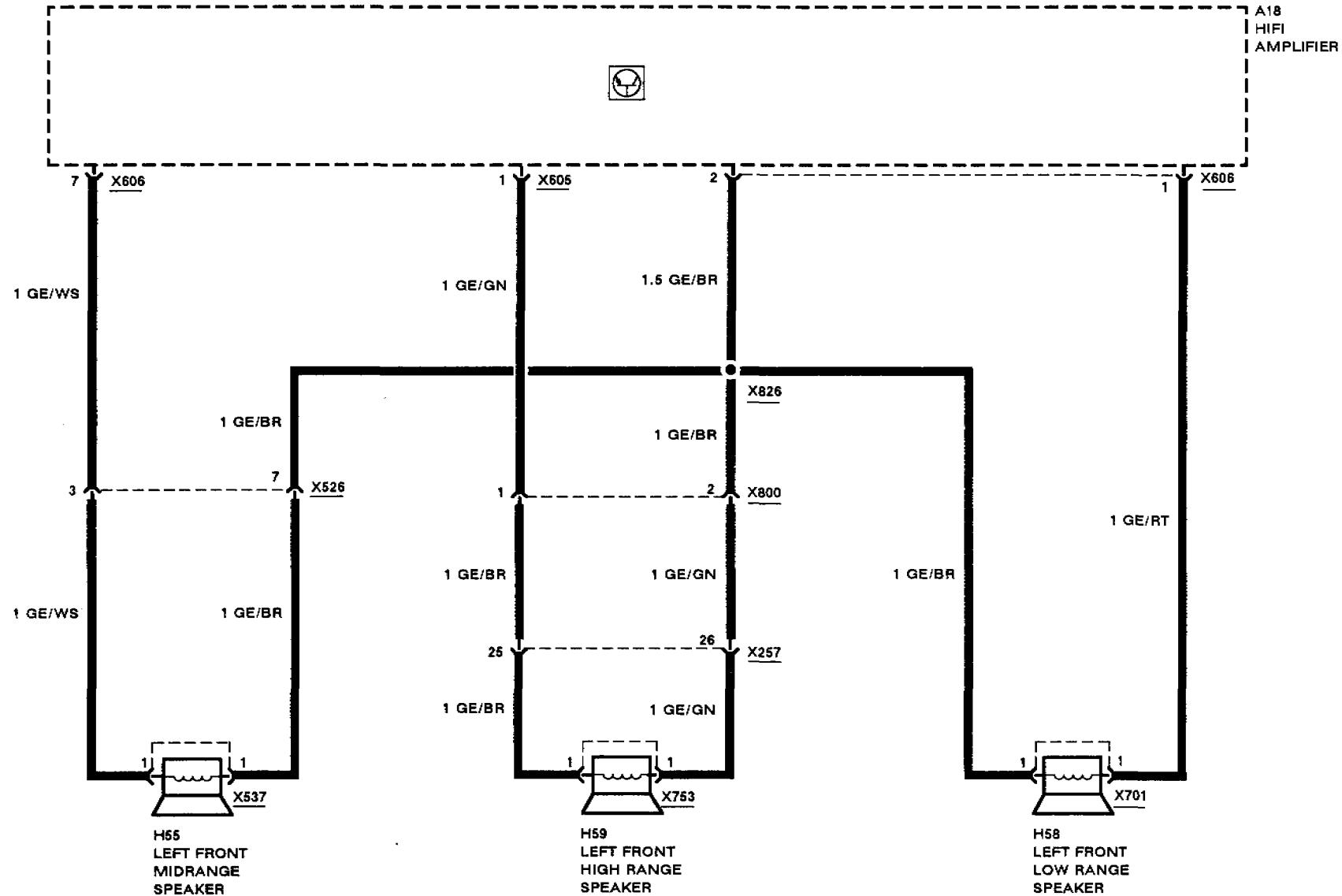




## RADIO/ CD PLAYER (PROVISIONS)

HIFI, TEN SPEAKER SYSTEM

2/89



6510.0-02

1989



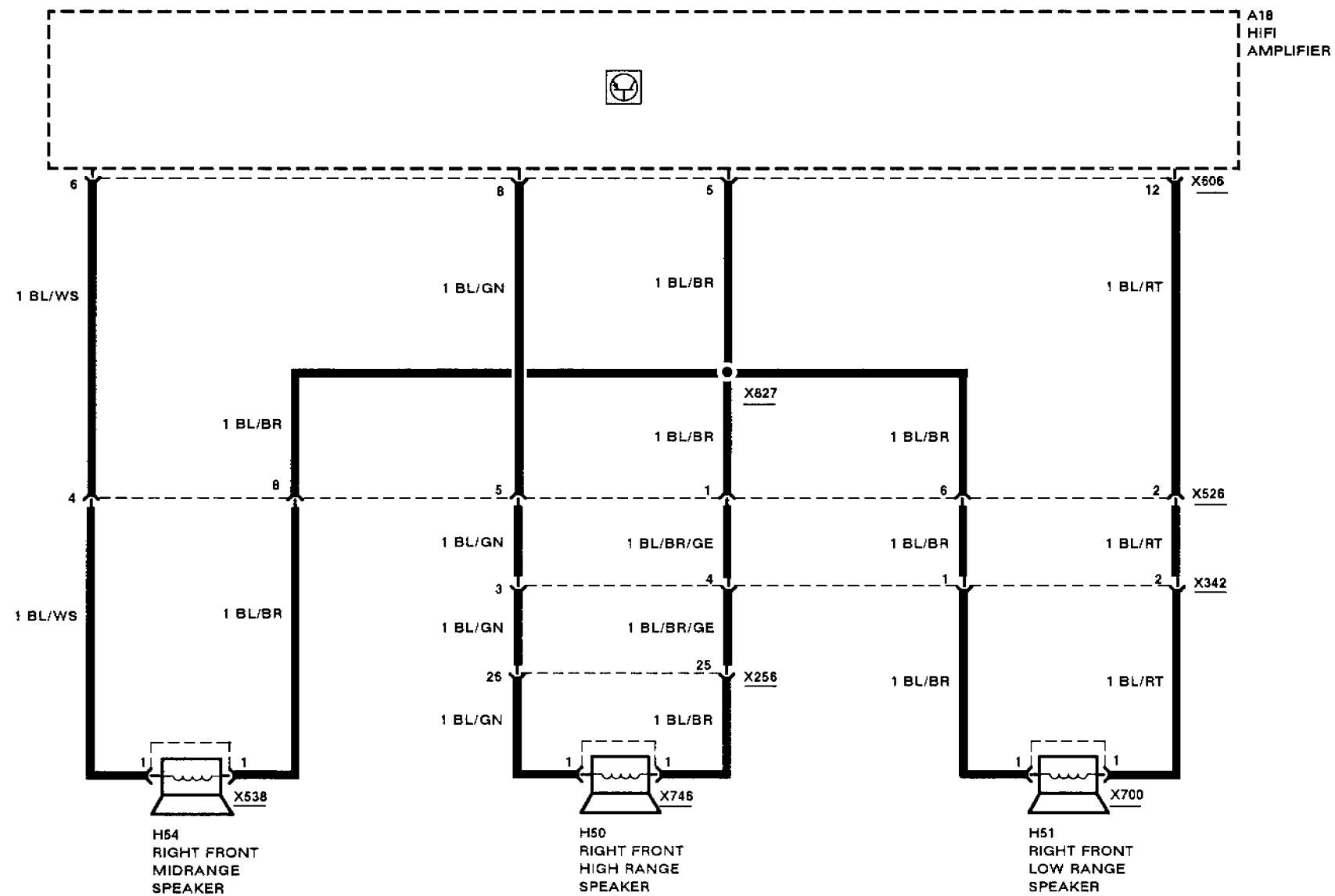
## RADIO/ CD PLAYER (PROVISIONS)

HIFI, TEN SPEAKER SYSTEM

2/89

6510.0-03

1989

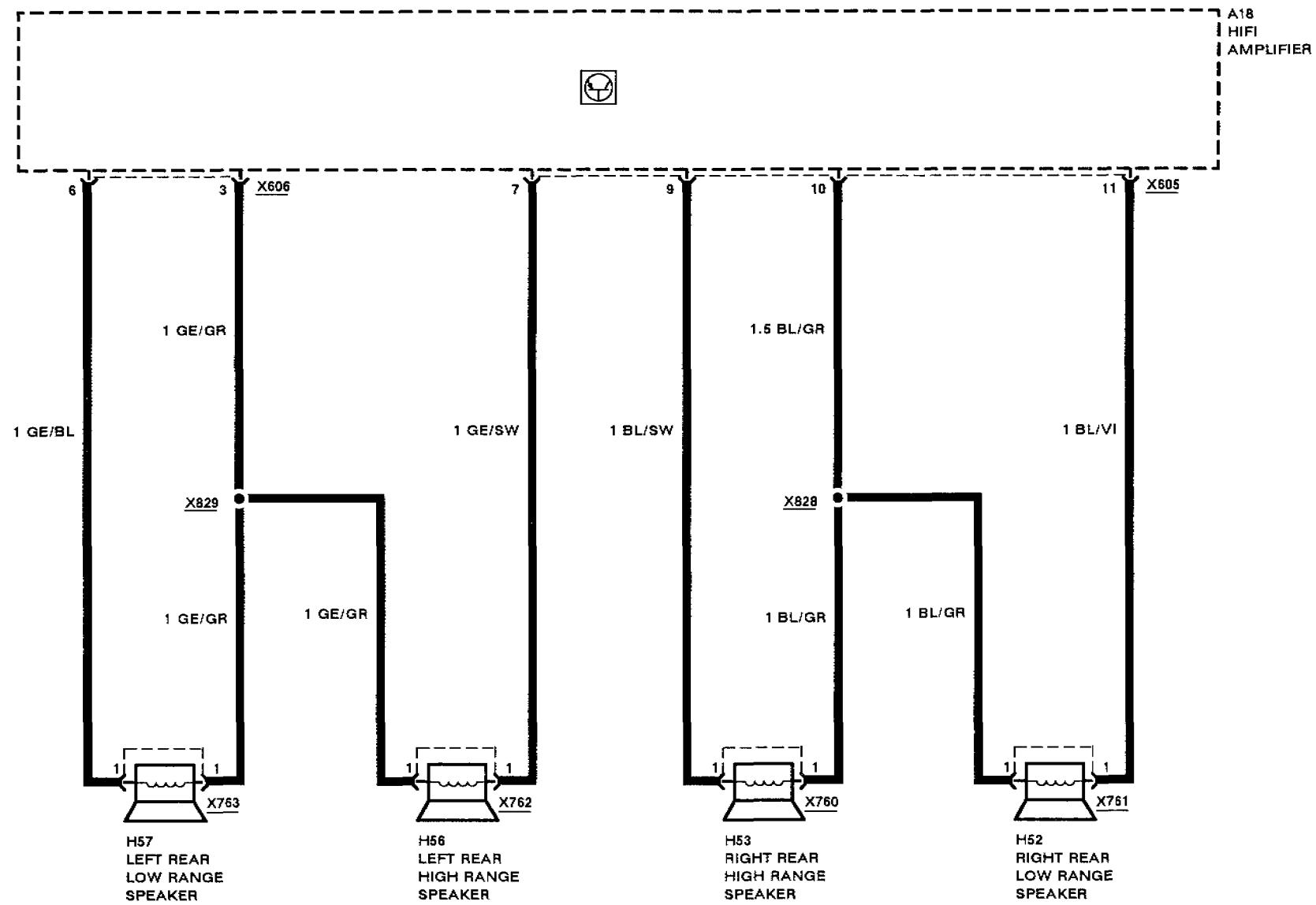




#### **RADIO/ CD PLAYER (PROVISIONS)**

#### **HIFI, TEN SPEAKER SYSTEM**

68/2



6510.0-04

6861



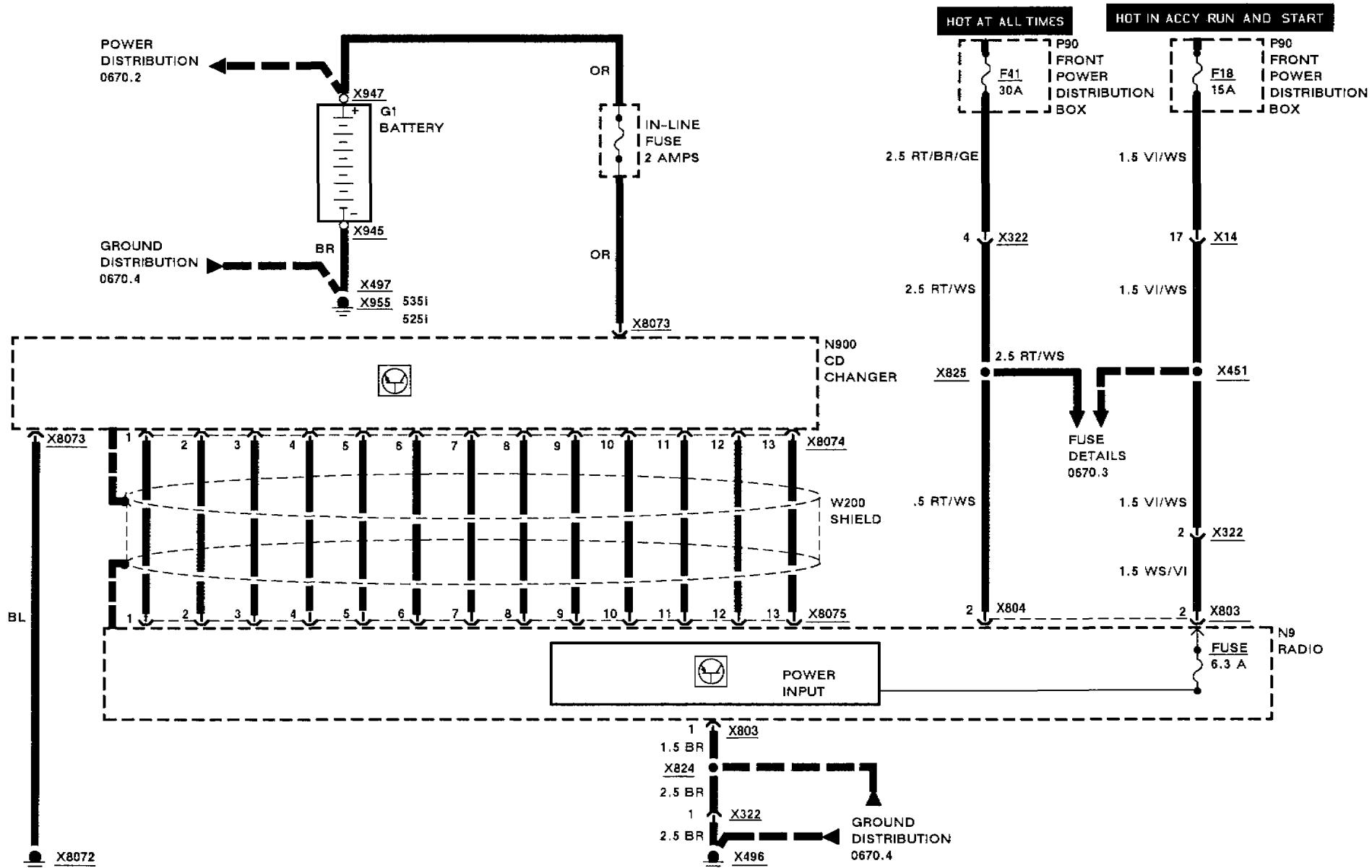
## RADIO/ CD PLAYER (PROVISIONS)

### CD CHANGER (IF EQUIPPED)

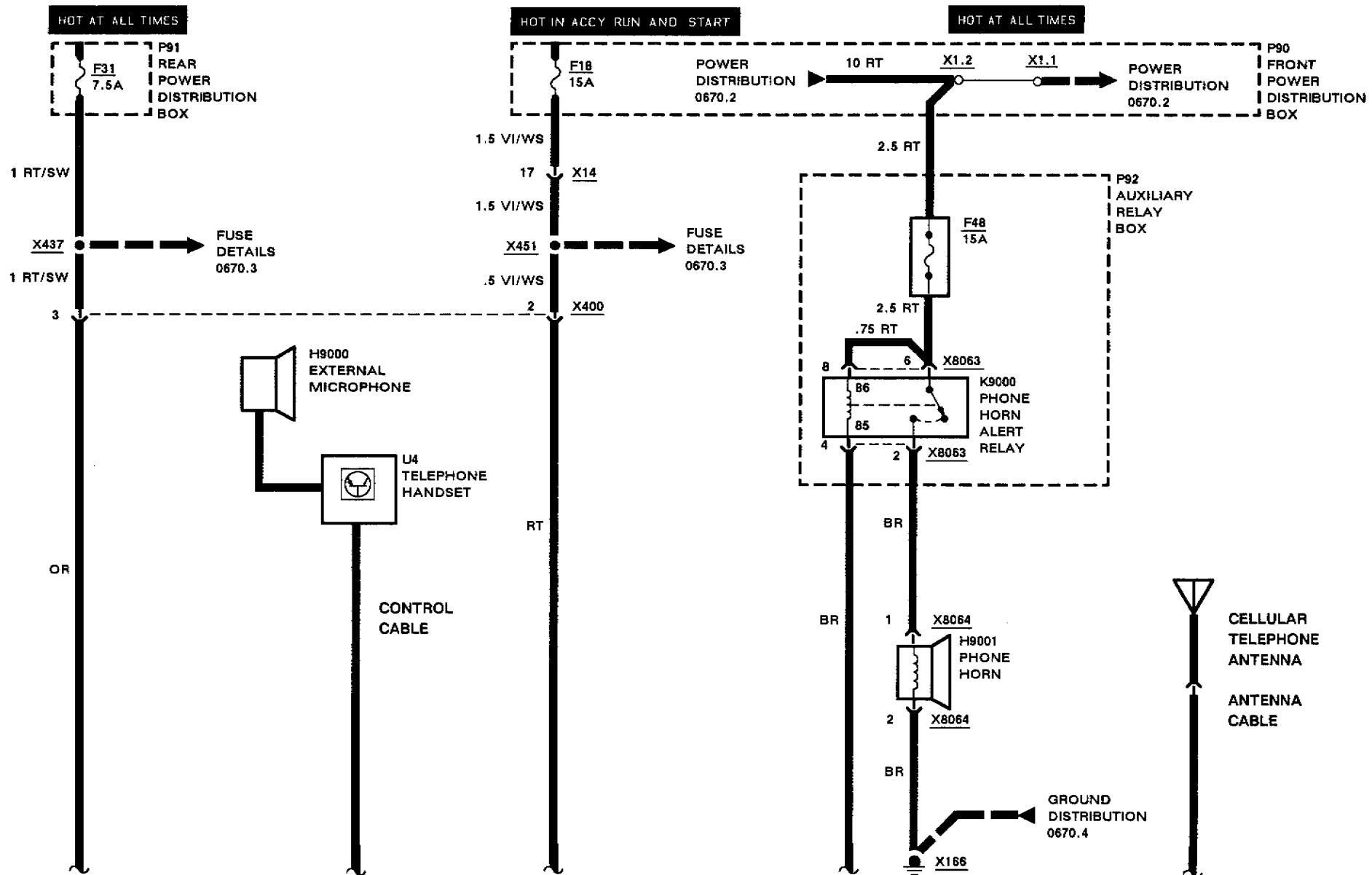
2/89

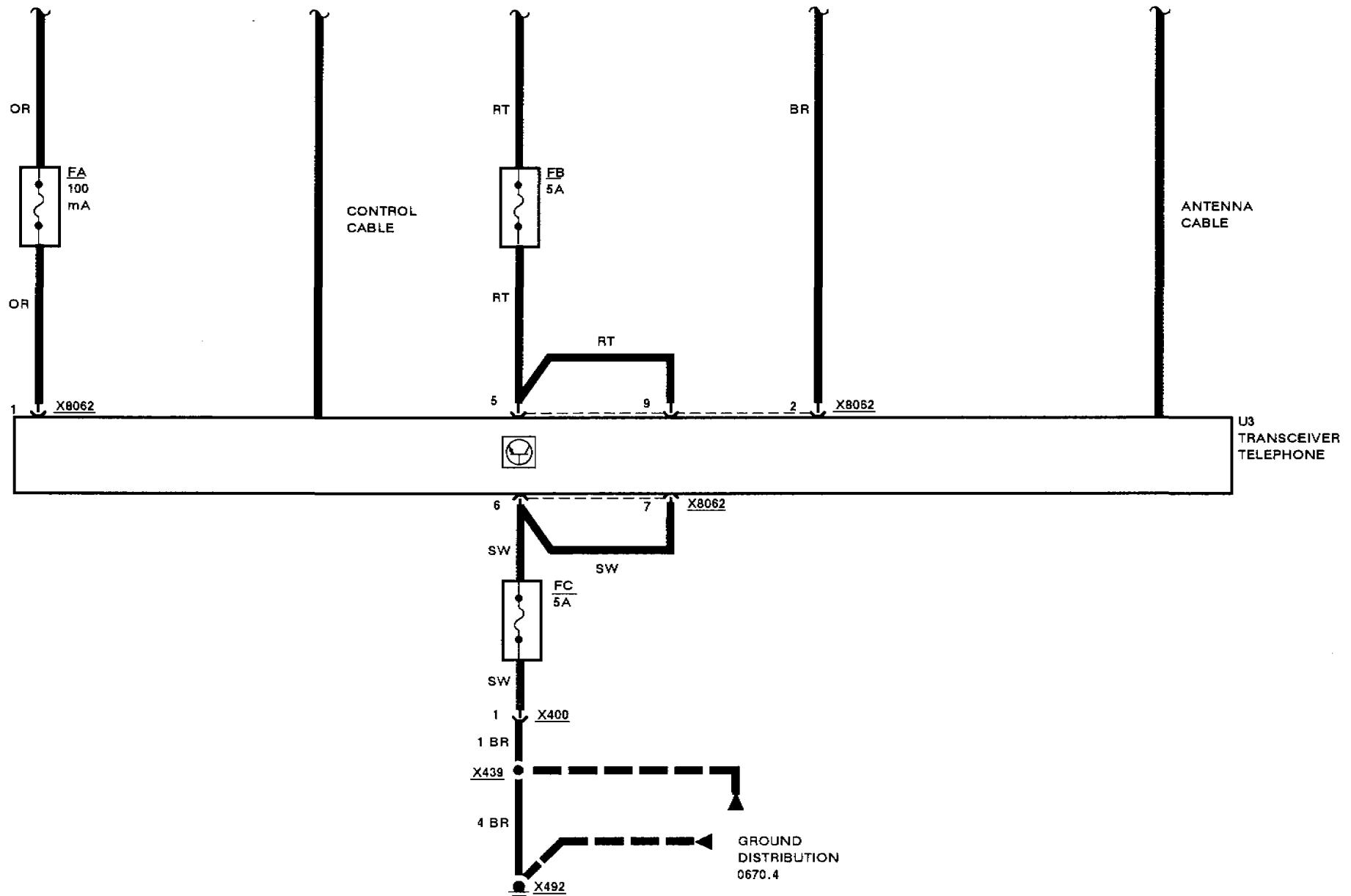
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## CELLULAR TELEPHONE (PROVISIONS)







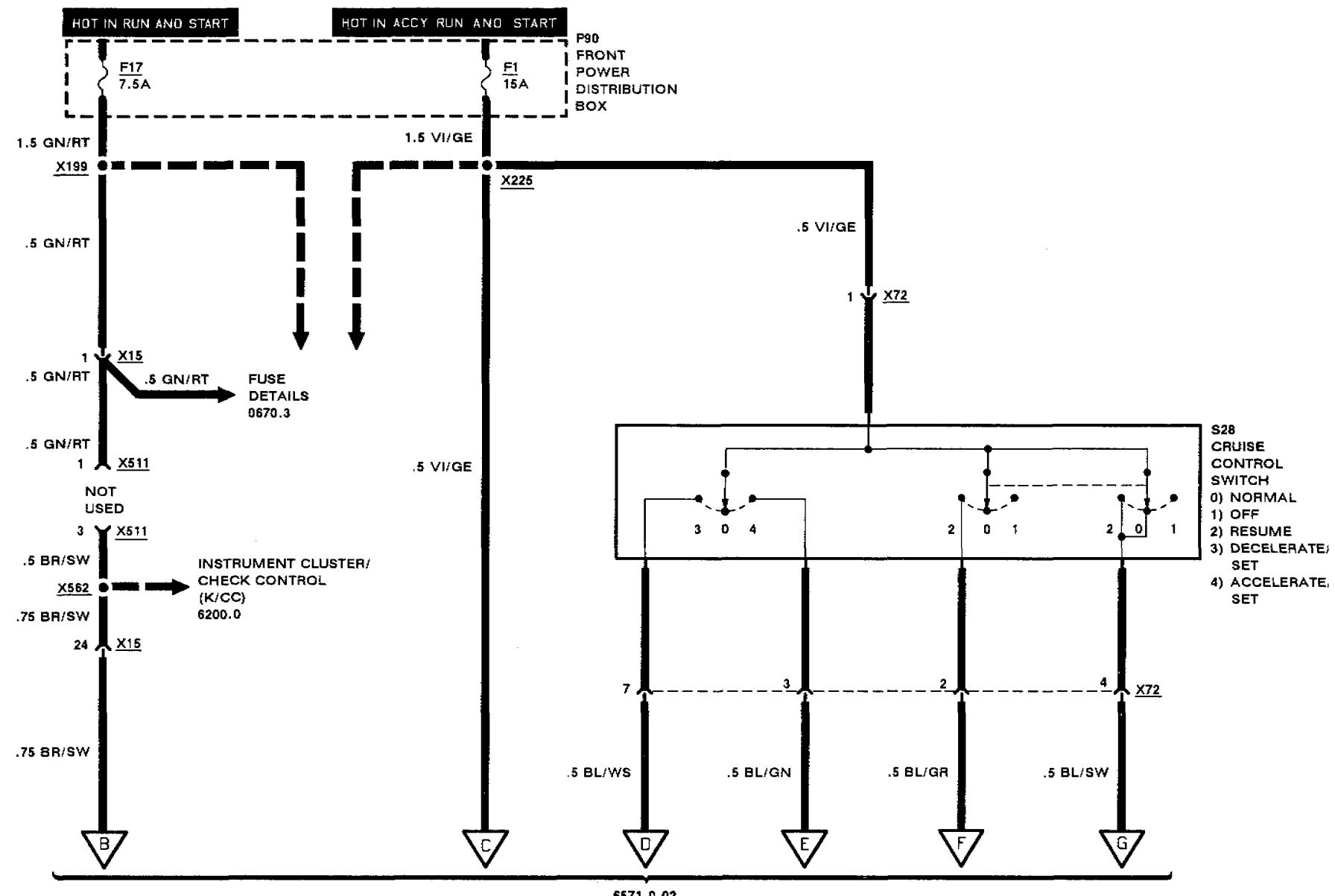
# CRUISE CONTROL (TEMPOMAT)

## MANUAL

2/89

6571.0-00

1989

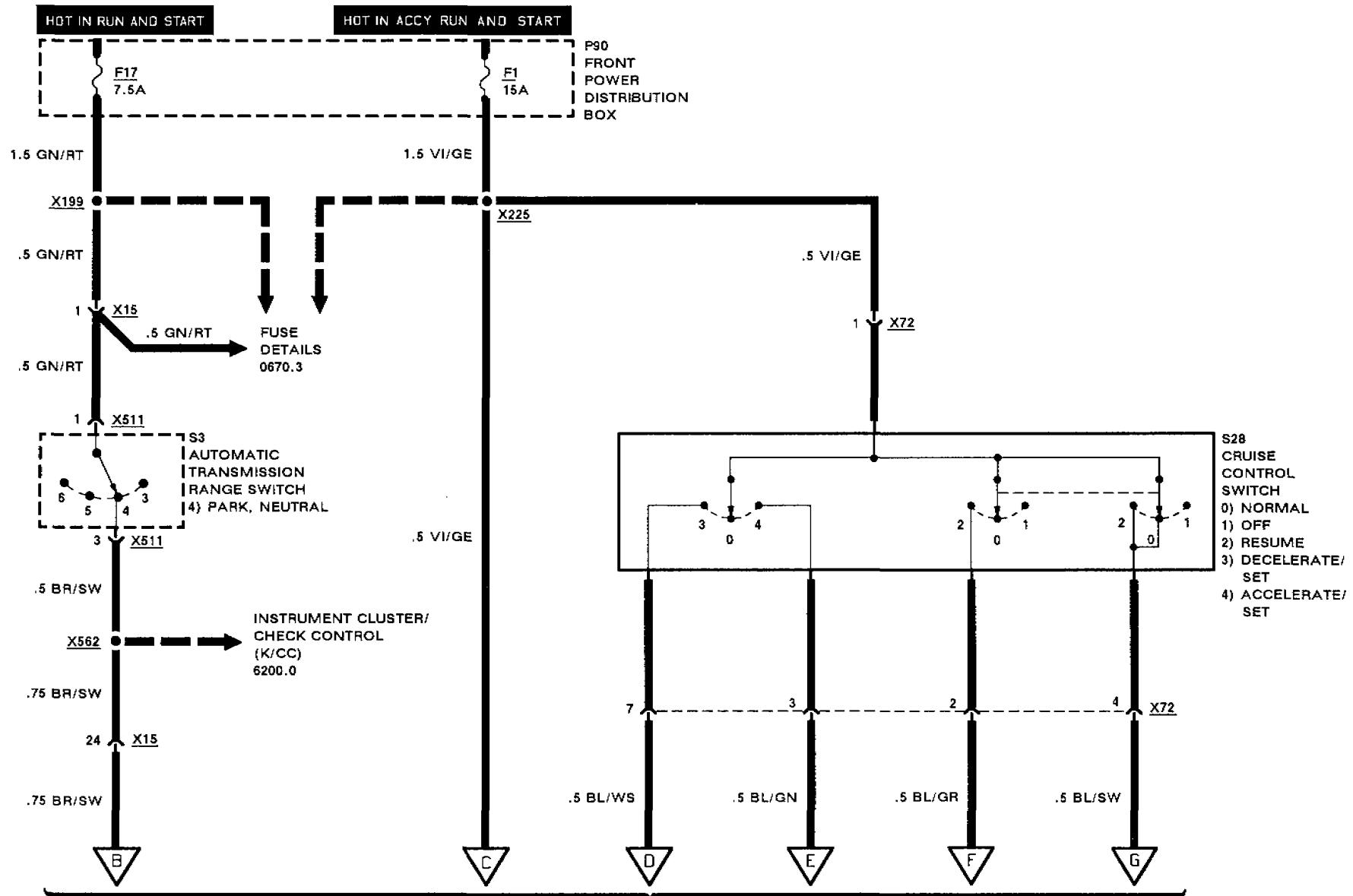


6571.0-02



## CRUISE CONTROL (TEMPOMAT)

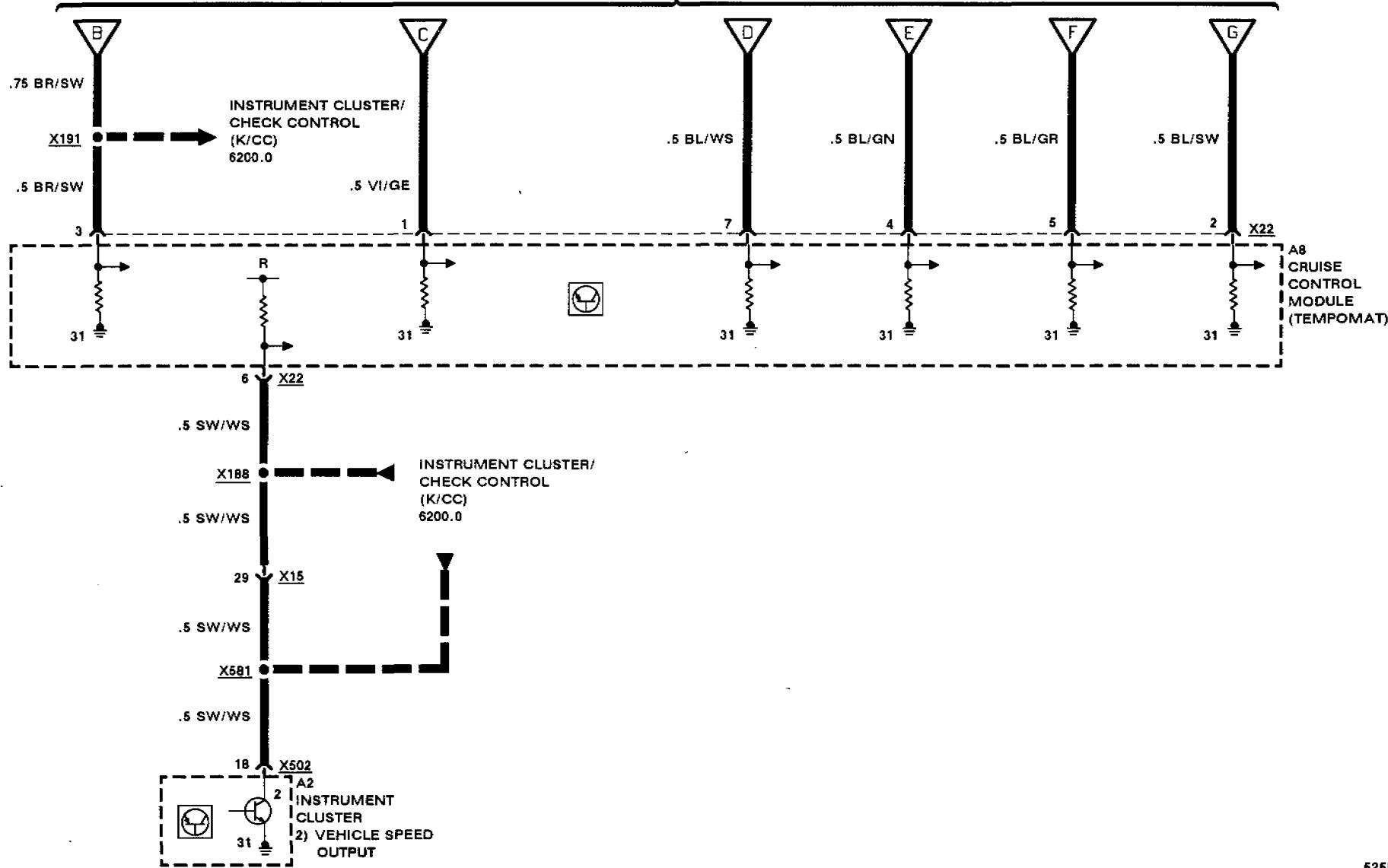
AUTOMATIC





## CRUISE CONTROL (TEMPOMAT)

2/89

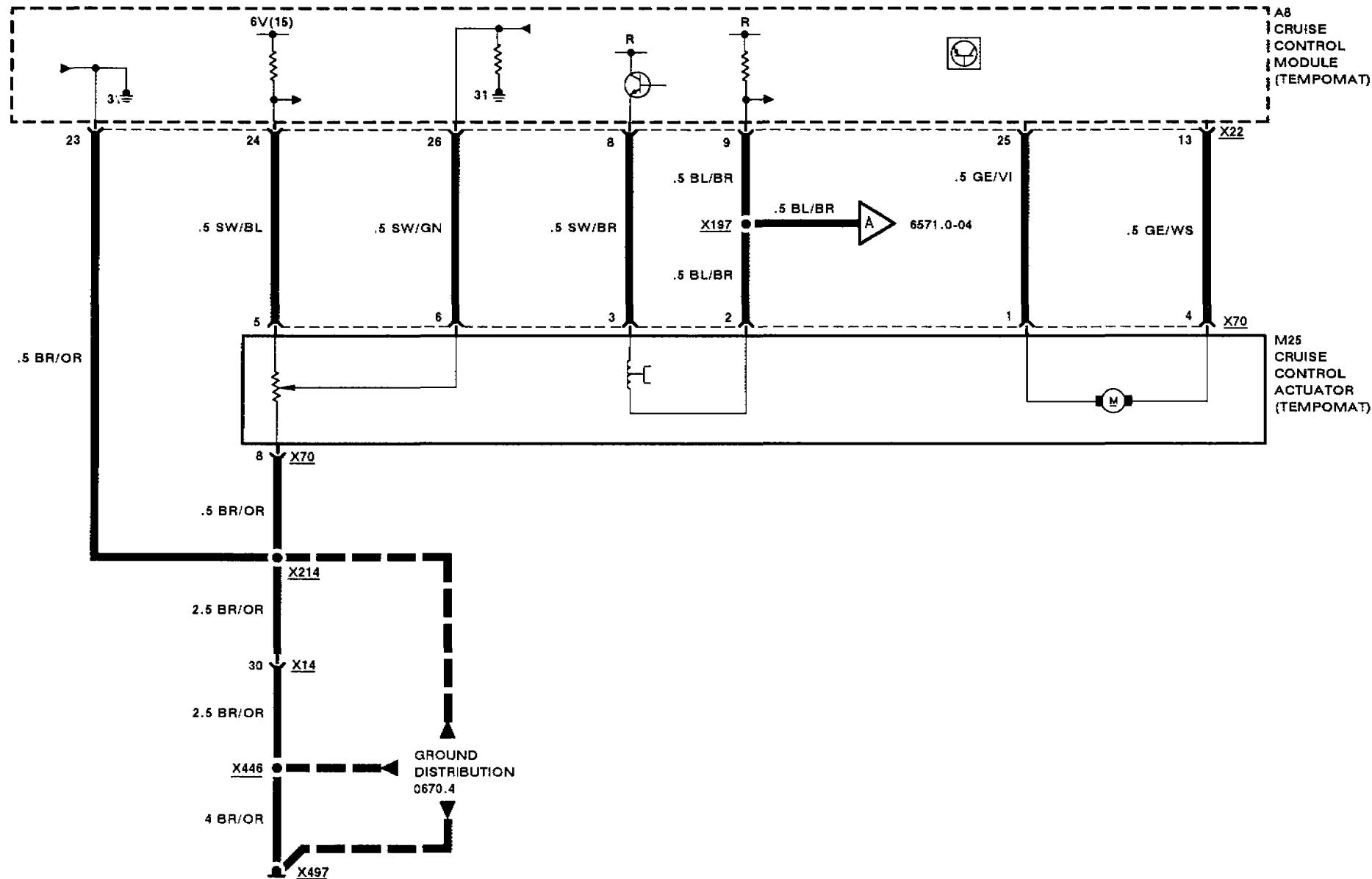
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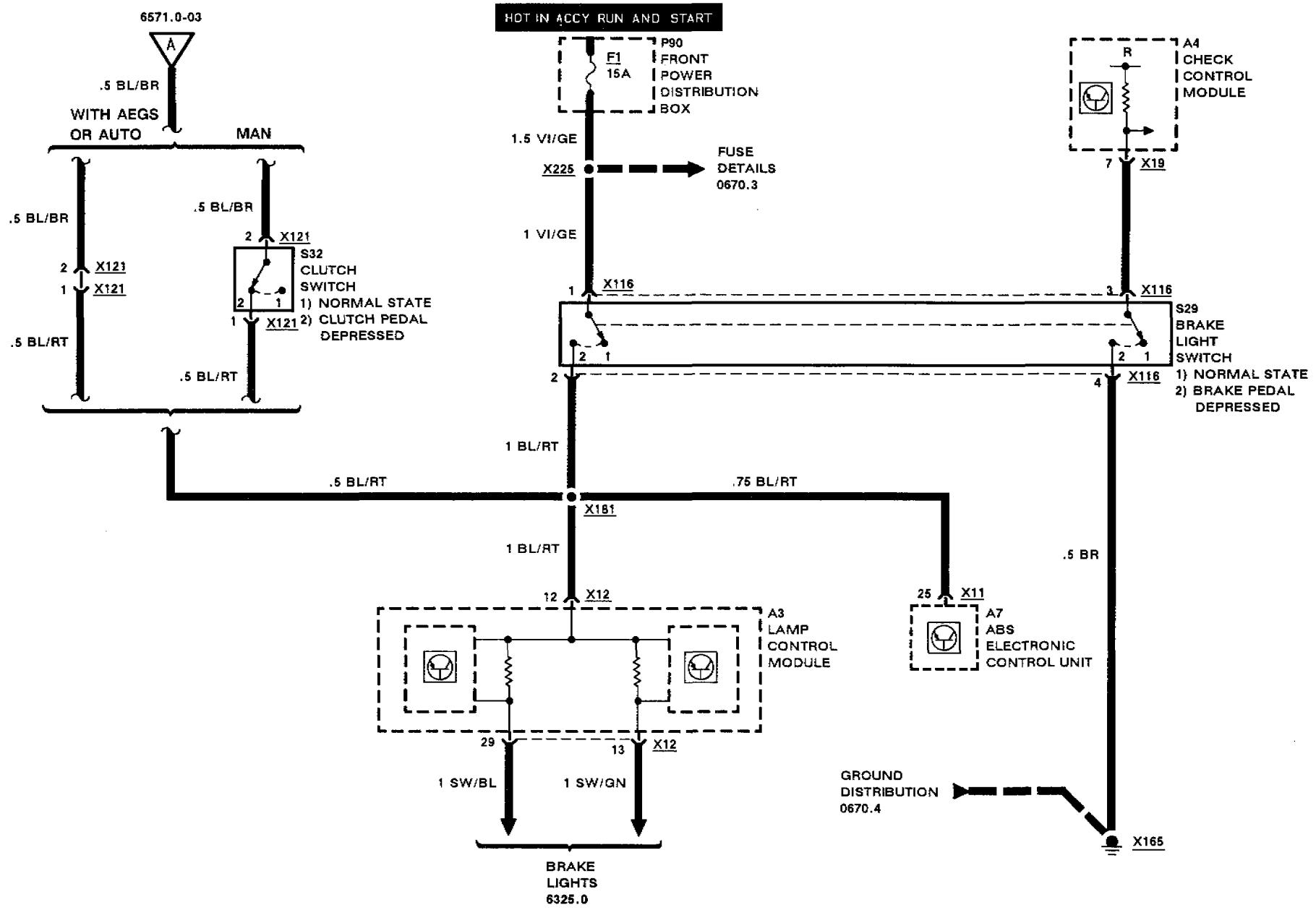
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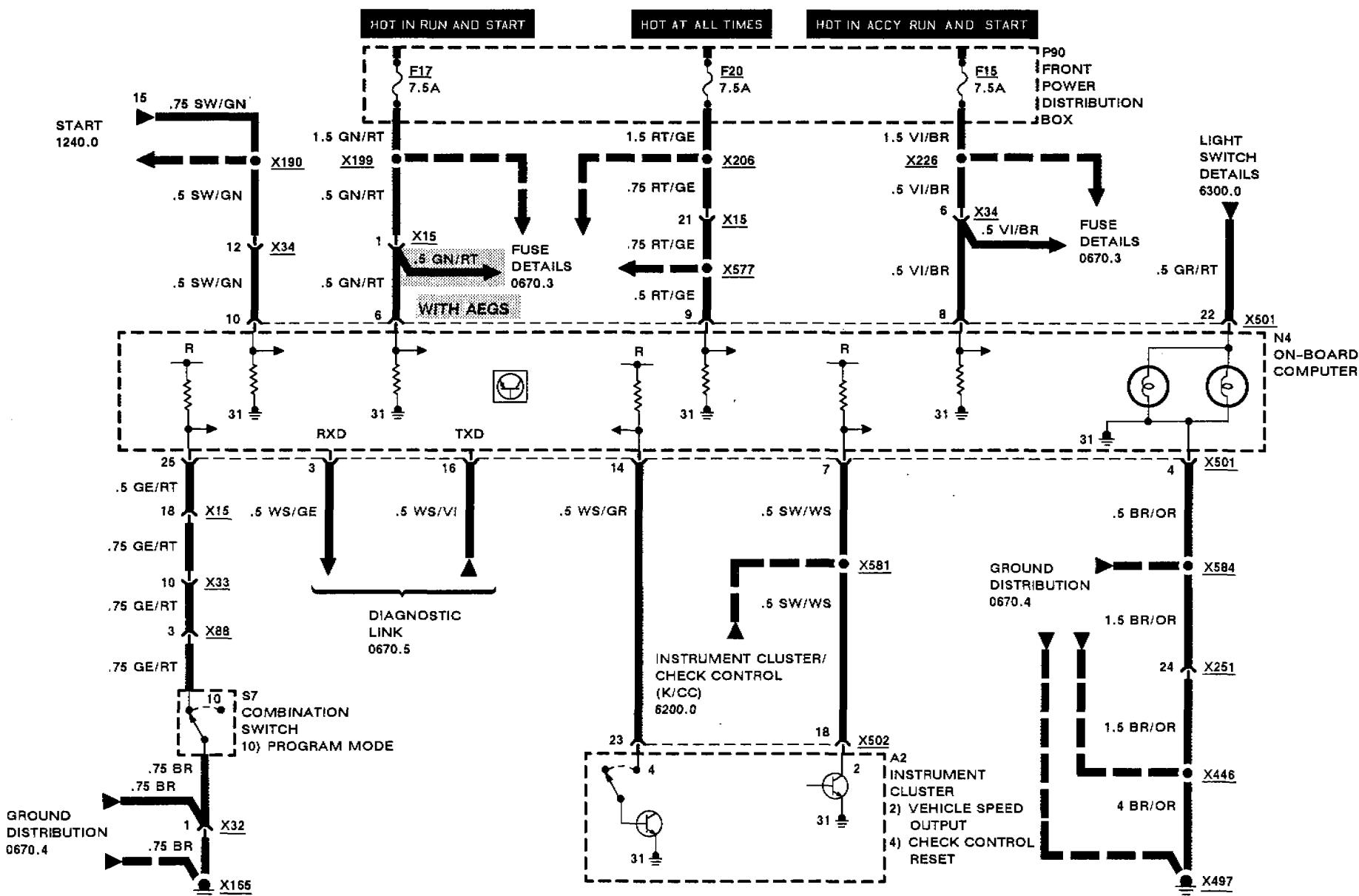
525i/530i/535i

## CRUISE CONTROL (TEMPOMAT)





## ON-BOARD COMPUTER (BCIV)



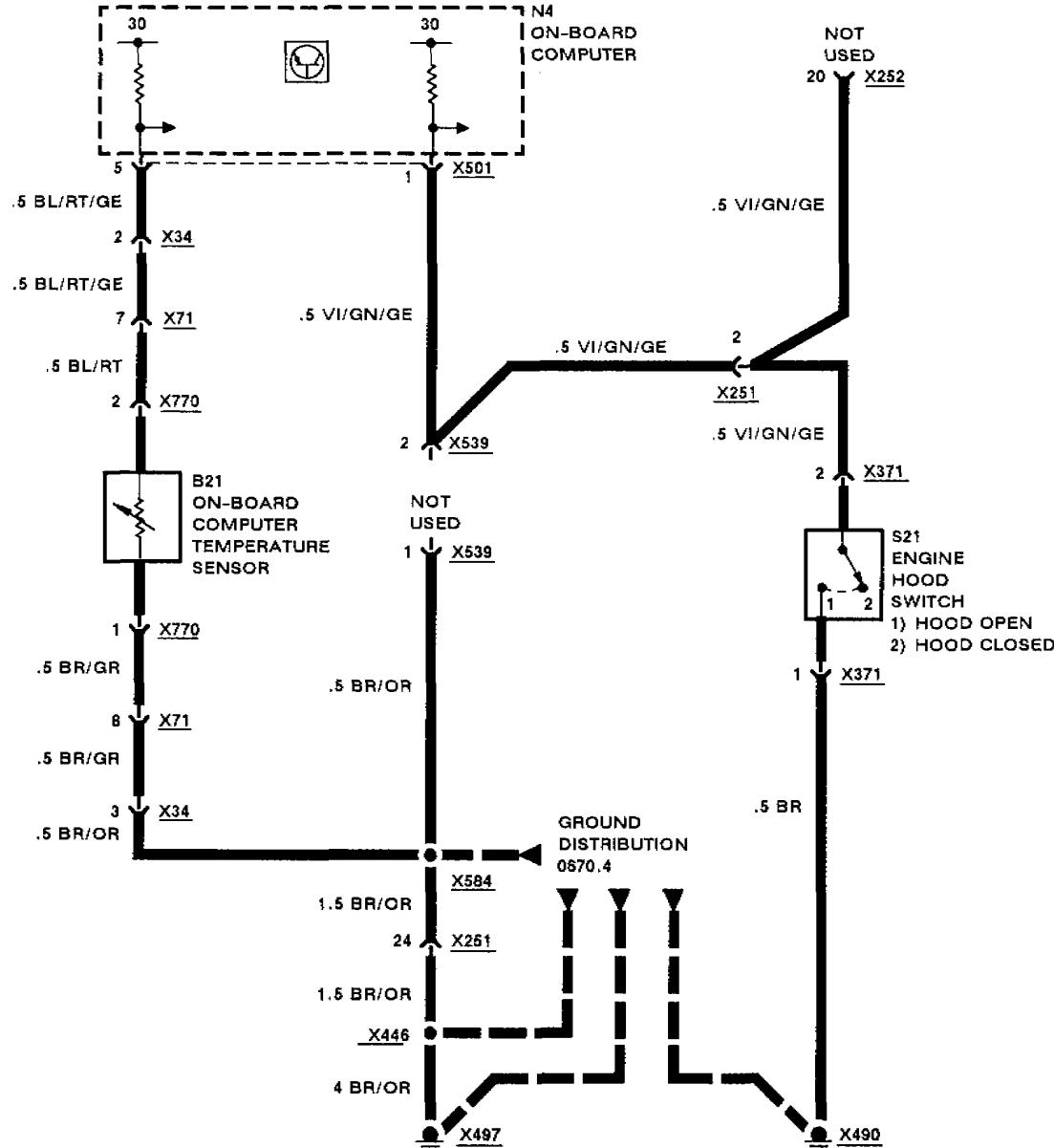


## ON-BOARD COMPUTER (BCIV)

2/89

6581.0-01

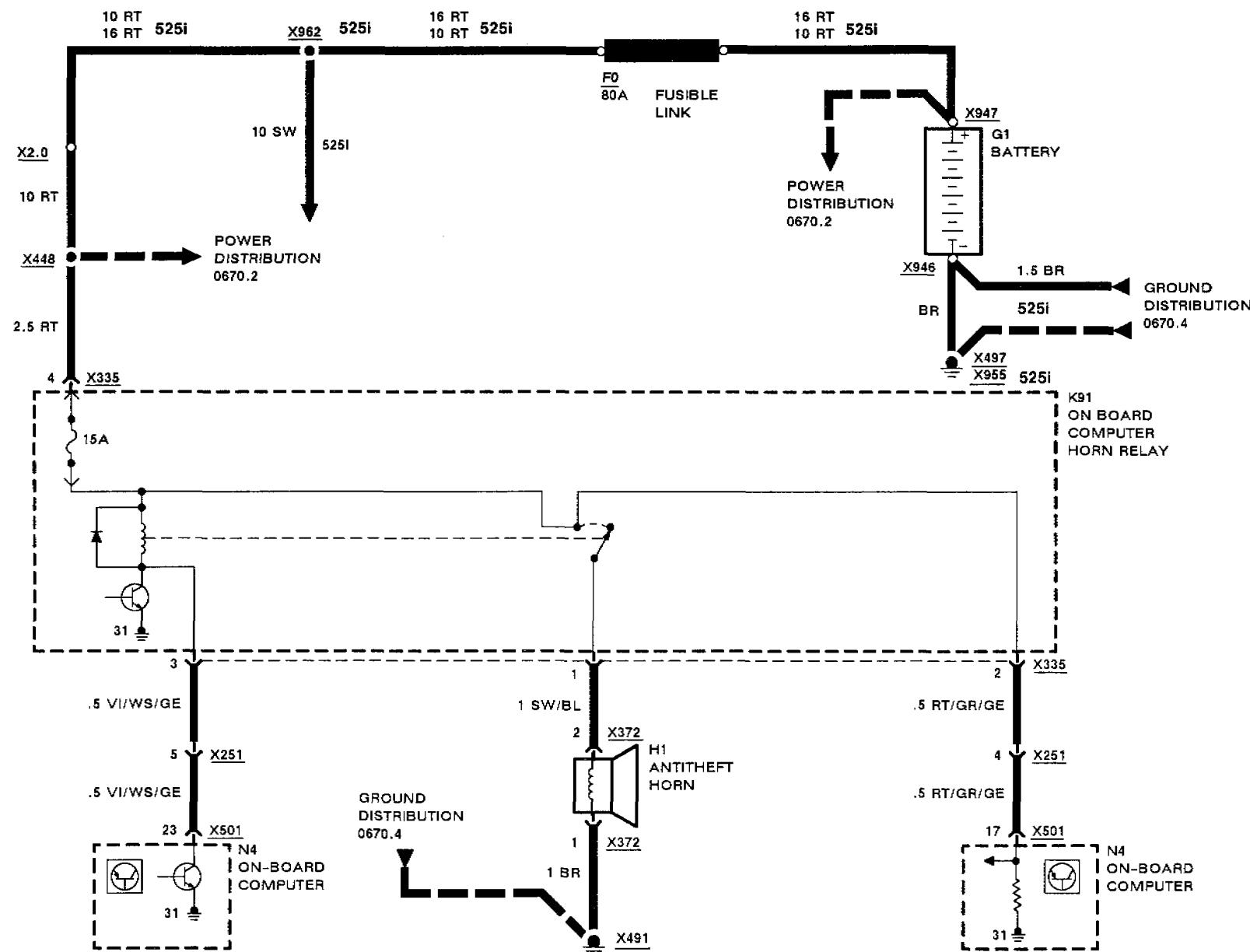
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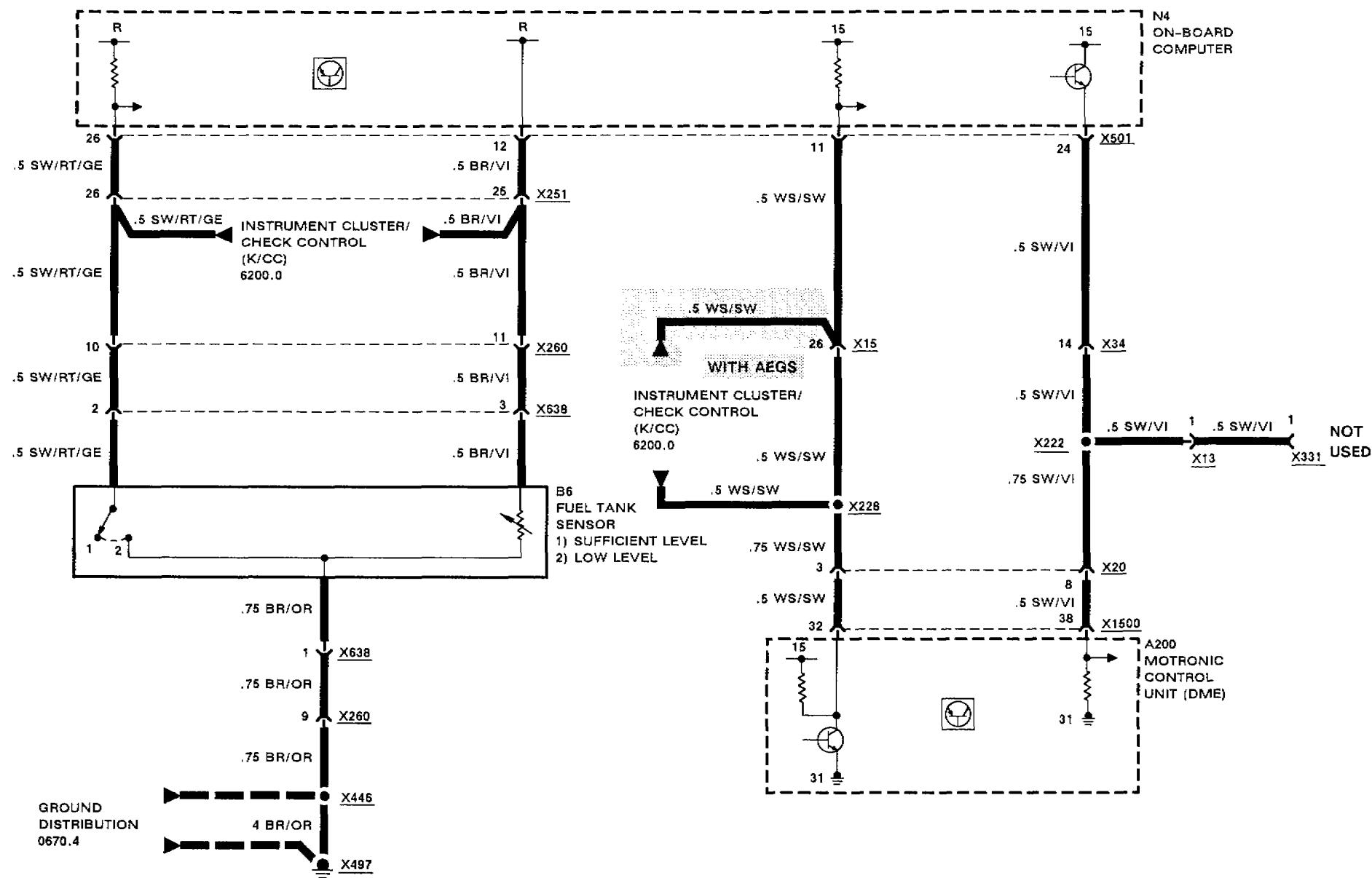
## ON-BOARD COMPUTER (BCIV)

### ANTITHEFT HORN



## ON-BOARD COMPUTER (BCIV)

## FUEL GAUGE





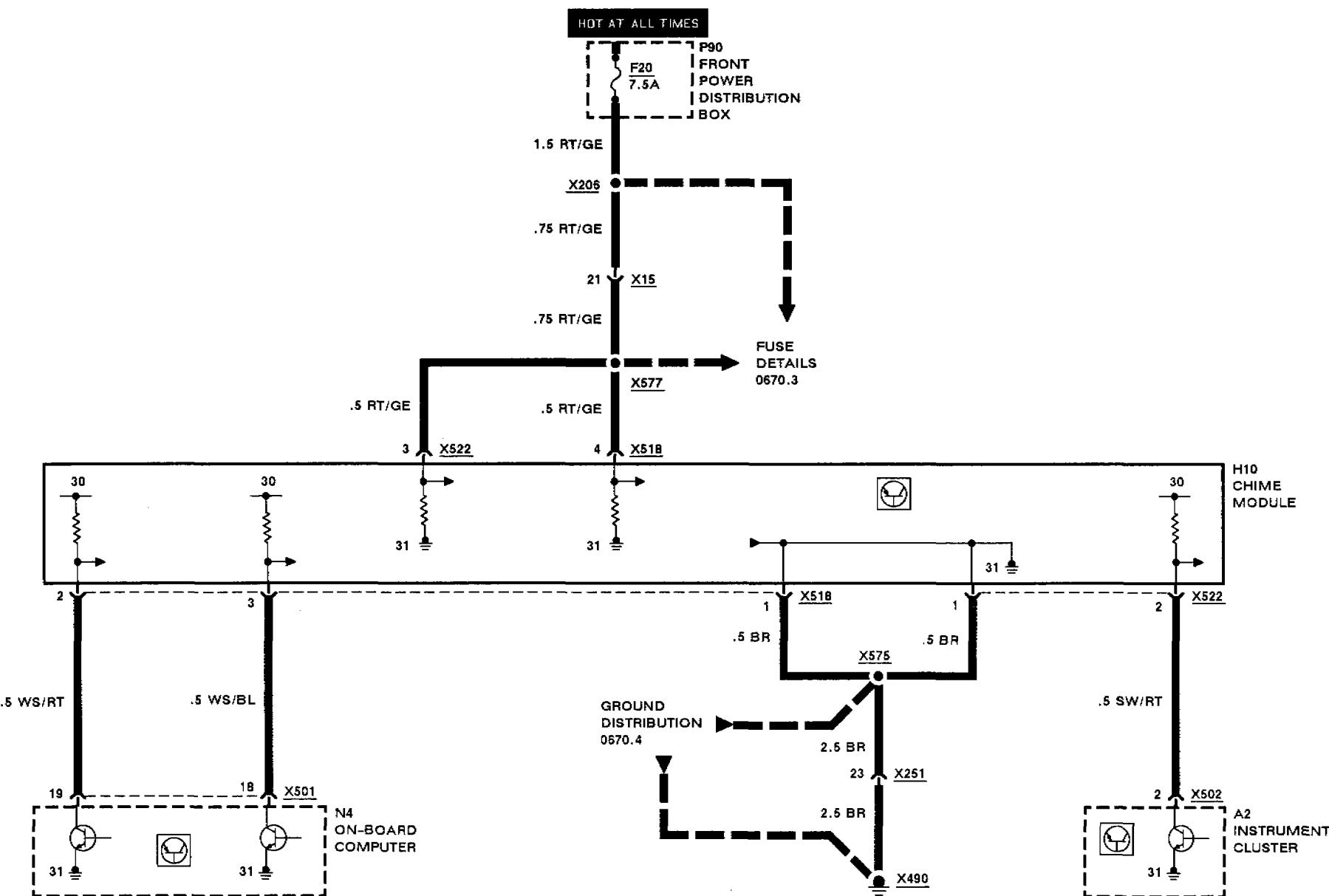
## ON-BOARD COMPUTER (BCIV)

### CHIME MODULE

2/89

6581.0-04

1989





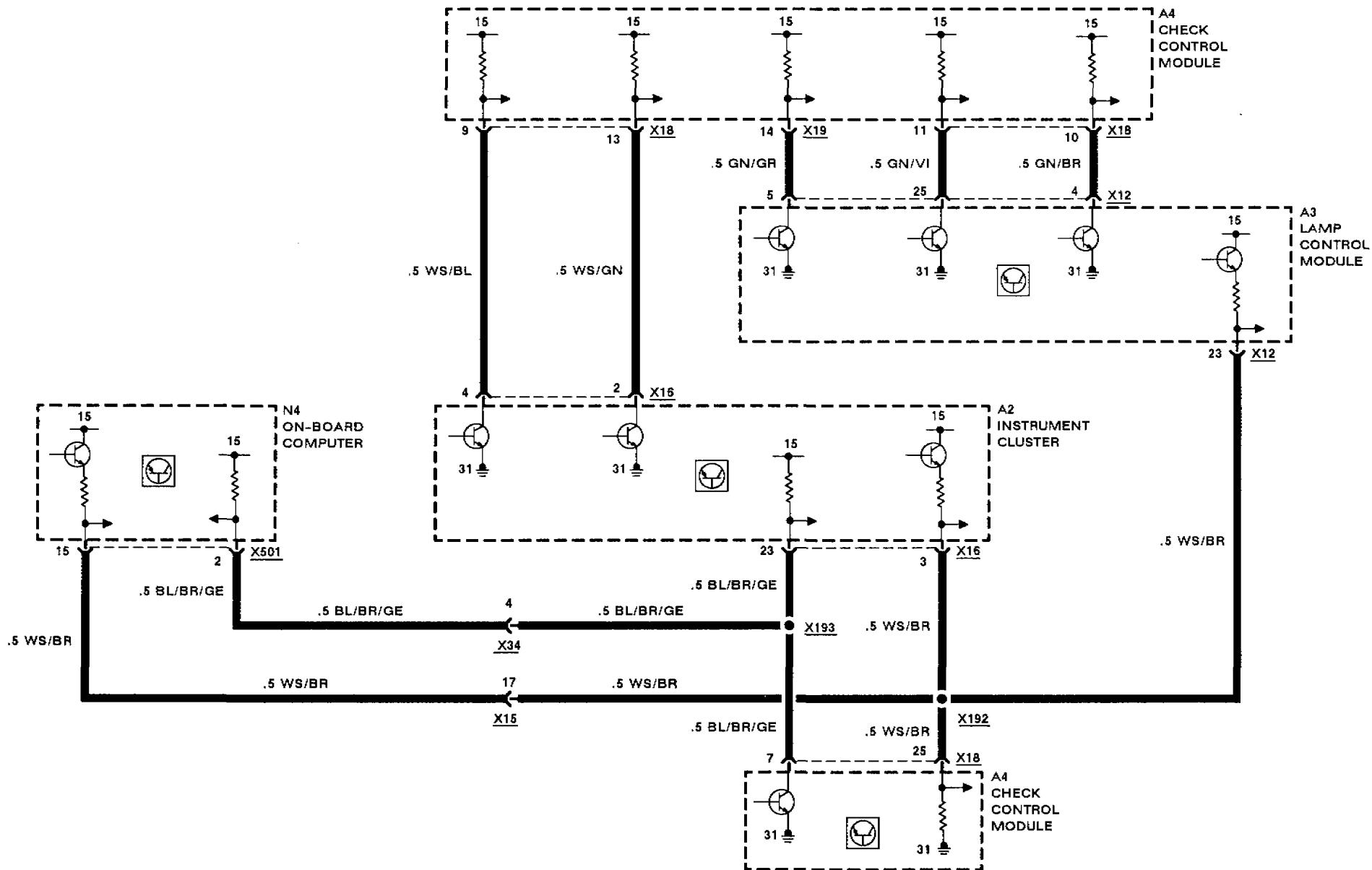
## ON-BOARD COMPUTER (BCIV)

### DATA LINK

2/89

6581.0-05

1989





## COMPONENT LOCATION CHART

### COMPONENTS

Page-Figure

A1.....	General Module .....	Below LH side of rear seat, in P91 Rear Power Distribution Box .....	7100.0-34-2
A3.....	Lamp Control Module .....	LH rear of engine compartment, in P90 Front Power Distribution Box .....	7100.0-01-1
A4.....	Check Control Module .....	LH rear of engine compartment, in P90 Front Power Distribution Box .....	7100.0-01-1
A5.....	Relay Module .....	Below LH side of rear seat, in P91 Rear Power Distribution Box .....	7100.0-34-2
A7.....	ABS Electronic Control Unit .....	In P93 E-Box, behind RH front shock tower .....	7100.0-13-2
A8.....	Cruise Control Module (Tempomat) .....	In P93 E-Box, behind RH front shock tower .....	7100.0-13-2
A12.....	Diagnostic Module (SRS) .....	Behind LH side of dash, on LH side of steering column ..	7100.0-22-1
A16.....	Compressor Control Unit .....	Inside LH kick panel .....	7100.0-20-3
A17.....	Servotronic Control Unit .....	Inside LH kick panel .....	Not in US
A18.....	HIFI Amplifier .....	LH side of luggage compartment, on brace .....	7100.0-39-1
A31.....	Defogger Control Unit .....	Behind center of dash, RH side of IHKR plenum .....	Not in US
A200.....	Motronic Control Unit (DME) .....	In P93 E-Box, behind RH front shock tower .....	7100.0-13-2
A300.....	Electronic Transmission Control Unit (AEGS) .....	Inside RH kick panel .....	7100.0-29-3
A9000.....	Integrated Climate Regulation Control Unit (IHKR) .....	Behind center of dash, ahead of IHKR plenum .....	7100.0-29-2
B1.....	Right Front Speed Sensor .....	Behind RH front wheel .....	7100.0-17-1
B2.....	Left Front Speed Sensor .....	Behind LH front wheel .....	7100.0-16-3
B3.....	Right Rear Speed Sensor .....	Behind RH rear wheel, on axle .....	7100.0-17-3
B4.....	Left Rear Speed Sensor .....	Behind LH rear wheel, on axle .....	7100.0-17-2
B6.....	Fuel Tank Sensor .....	Below luggage compartment, through RH access panel, RH side of spare tire .....	7100.0-38-3
B7.....	Low Pressure Switch .....	RH front of engine compartment, below washer reservoir ..	7100.0-09-2
B8.....	High Pressure Switch .....	RH front of engine compartment below washer reservoir ..	7100.0-09-2
B9.....	Intermediate Pressure Switch .....	RH front of engine compartment, below washer reservoir ..	7100.0-09-2
B10.....	Vehicle Speed Sensor .....	Rear of car, on differential .....	7100.0-20-2
B11.....	Left Heat Exchanger Temperature Sensor .....	Behind LH side of dash, in LH side of IHKR plenum .....	7100.0-25-1
B12.....	Right Heat Exchanger Temperature Sensor .....	Behind RH side of dash, in RH side of IHKR plenum .....	7100.0-29-1



## COMPONENT LOCATION CHART

### COMPONENTS

Page-Figure

B13.....	Outside Temperature Sensor .....	Behind center of cowl, on RH side of M30 Blower Motor ..	7100.0-15-3
B14.....	Evaporator Temperature Sensor .....	Behind LH side of dash, on lower LH side of IHKR plenum ..	7100.0-25-2
B15.....	Electro-Hydraulic Converter (Servotronic) .....	Lower LH front of engine compartment, behind LH front wheel ..	Not in US
B16.....	Left Front Brake Pad Sensor .....	Behind LH front wheel, on caliper .....	7100.0-16-3
B17.....	Right Rear Brake Pad Sensor .....	Behind RH rear wheel, on caliper .....	7100.0-17-3
B18.....	Brake Fluid Level Switch (M20 Engine) .....	LH rear of engine compartment, top of brake fluid reservoir .....	7100.0-02-2
B18.....	Brake Fluid Level Switch (M30 Engine) .....	LH rear of engine compartment, top of brake fluid reservoir .....	7100.0-02-3
B21.....	On-Board Computer Temperature Sensor .....	Under LH side of front bumper .....	7100.0-16-2
B201....	Cylinder Identification Sensor .....	RH front of engine, near distributor .....	7100.0-10-3
B202....	Engine Speed/Reference Point Sensor .....	Front of engine, below distributor .....	7100.0-10-3
B203....	Oxygen Sensor (M30 Engine) .....	In top of catalyst, near rear of transmission .....	7100.-19-3
B203....	Oxygen Sensor (M20 Engine) .....	Lower RH side of engine compartment .....	7100.0-12-3
B204....	Coolant Temperature Sensor (M30 Engine) .....	On coolant inlet, near valve cover .....	7100.0-10-2
B204....	Coolant Temperature Sensor (M20 Engine) .....	On coolant inlet, near valve cover .....	7100.0-10-1
B205....	Oil Level Sensor (M20 Engine) .....	On bottom of oil pan .....	7100.0-18-1
B205....	Oil Level Sensor (M30 Engine) .....	On bottom of oil pan .....	7100.0-18-2
B206....	Oil Pressure Switch (M30 Engine) .....	Top rear of engine, rear of cylinder head .....	7100.0-15-2
B206....	Oil Pressure Switch (M20 Engine) .....	Lower LH front of engine .....	7100.0-19-1
B207....	Coolant Temperature Sender (M30 Engine) .....	On coolant inlet, near valve cover .....	7100.0-10-2
B207....	Coolant Temperature Sender (M20 Engine) .....	On coolant inlet, near valve cover .....	7100.0-10-1
B208....	Air Flow Meter (M20 Engine) .....	LH side of engine .....	7100.0-05-3
B208....	Air Flow Meter (M30 Engine) .....	Top center of engine, ahead of oil fill cap .....	7100.0-12-2
B210....	Temperature Switch .....	In P93 E-Box, behind RH front shock tower .....	7100.0-14-1
B900....	Jumper Plug .....	LH rear of engine compartment, in P90 Front Power Distribution Box .....	7100.0-00-3
C100....	Contact Ring .....	Inside steering wheel .....	7100.0-23-2



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
C900	Defogger Coupler	7100.0-38-2
D100	Diagnostic Connector	7100.0-01-3
E48	Door Lock Heater	In door, at key lock assembly
E51	Left Washer Jet Heater	Under cover, on engine hood
E52	Right Washer Jet Heater	Under cover, on engine hood
E56	Driver's Seatback Heater	In back of driver's seat
E57	Driver's Seat Heater	In driver's seat
E58	Passenger's Seat Heater	In passenger's seat
E59	Passenger's Seatback Heater	In back of passenger's seat
F0	Fusible Link 80A	RH side of engine compartment
F99	Fusible Link 50A (535i)	Below RH side of rear seat
F99	Fusible Link 50A (525i)	Below RH side of rear seat
G1	Battery (M30 Engine)	Below RH side of rear seat
G1	Battery (M20 Engine)	RH front of engine compartment
G2	Alternator	Lower LH front of engine
G5	Driver's Air Bag Generator	Inside center of steering wheel
H2	Left Horn	Front of car, behind grille
H3	Right Horn	Front of car, behind grille
H10	Chime Module	Behind LH side of dash, mounted in hush panel
H60	Audible Turn-Signal Relay	Below steering column
H9002	On Board Computer Antitheft Horn	Behind center of cowl
K1	Starter Relay	LH rear of engine compartment, in P90 Front Power Distribution Box
K2	Horn Relay	LH rear of engine compartment, in P90 Front Power Distribution Box
K3	Unloader Relay, KLR	LH rear of engine compartment, in P90 Front Power Distribution Box
K4	Blower Relay	LH rear of engine compartment, in P90 Front Power Distribution Box



## COMPONENT LOCATION CHART

### COMPONENTS

Page-Figure

K5.....	Washer Pump Relay .....	LH rear of engine compartment, in P90 Front Power Distribution Box .....	Not in US
K9.....	Unloader Relay, KL15 .....	LH rear of engine compartment, in P90 Front Power Distribution Box .....	7100.0-01-1
K11.....	Wiper Relay .....	Below LH side of rear seat, on P91 Rear Power Distribution Box .....	7100.0-34-3
K12.....	Wiper Pressure Control (ADV) Relay .....	Below LH side of rear seat, on P91 Rear Power Distribution Box .....	7100.0-34-2
K13.....	Rear Defogger Relay .....	Below LH side of rear seat, on P91 Rear Power Distribution Box .....	7100.0-34-3
K15.....	Electric Power Protection Relay .....	Below LH side of rear seat, on P91 Rear Power Distribution Box .....	7100.0-34-3
K16.....	Hazard Flasher Relay .....	LH rear of engine compartment, in P90 Front Power Distribution Box .....	7100.0-00-3
K21.....	Normal Speed Relay .....	LH side of engine compartment, in P92 Auxiliary Relay Box .....	7100.0-04-1
K22.....	High Speed Relay .....	LH side of engine compartment, in P92 Auxiliary Relay Box .....	7100.0-04-1
K33.....	Air Conditioning Relay .....	LH side of engine compartment, in P92 Auxiliary Relay Box .....	7100.0-04-1
K50.....	Water Pump Relay .....	LH rear of engine compartment, in P90 Front Power Distribution Box .....	7100.0-01-1
K91.....	On-Board Computer Horn Relay .....	Below LH side of rear seat, ahead of P91 Rear Power Distribution Box .....	7100.0-35-1
K201....	Fuel Pump Relay (M20 Engine) .....	In P93 E-Box, behind RH front shock tower .....	7100.0-14-1
K201....	Fuel Pump Relay (M30 Engine) .....	In P93 E-Box, behind RH front shock tower .....	7100.0-13-3
K202....	Main Relay (M20 Engine) .....	In P93 E-Box, behind RH front shock tower .....	7100.0-14-1
K202....	Main Relay (M30 Engine) .....	In P93 E-Box, behind RH front shock tower .....	7100.0-13-3
K203....	Oxygen Sensor Relay .....	In P93 E-Box, behind RH shock tower .....	7100.0-13-3
M1.....	Starter (M20 Engine) .....	LH side of engine, below intake manifold .....	7100.0-03-1



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
M1	Starter (M30 Engine)	LH side of engine, below intake manifold..... 7100.0-03-2
M2	Fuel Pump	Below luggage compartment, RH side of spare tire .. 7100.0-38-3
M3	Wiper Motor	Behind LH side of fresh air cowl ..... 7100.0-00-1
M4	Washer Pump	RH front of engine compartment, on washer fluid reservoir ..... 7100.0-09-1
M5	Intensive Wash Pump	RH front of engine compartment, on washer fluid reservoir ..... Not in US
M6	Wiper Pressure Control Motor (ADV)	Behind LH side of fresh air cowl ..... 7100.0-00-2
M9	Auxiliary Fan Motor	Center front of engine compartment, behind bumper .. 7100.0-08-2
M12	Driver's Door Lock Motor	Top rear of driver's door ..... 7100.0-30-3
M13	Passenger's Door Lock Motor	Top rear of passenger's door ..... 7100.0-30-3
M14	Right Rear Door Lock Motor	Top rear of RH rear door ..... 7100.0-31-2
M15	Left Rear Door Lock Motor	Top rear of LH rear door ..... 7100.0-31-2
M16	Gas Filler Lock Motor	In luggage compartment, behind RH wheel well..... 7100.0-39-2
M17	Trunk Lock Motor	In trunk lid, RH side of lid lock assembly ..... 7100.0-40-2
M20	Left Rear Window Motor	Lower front of LH rear door ..... 7100.0-31-2
M21	Driver's Window Motor	Lower front of driver's door ..... 7100.0-30-3
M22	Right Rear Window Motor	Lower front of RH rear door ..... 7100.0-31-2
M23	Passenger's Window Motor	Lower front of passenger's door ..... 7100.0-30-3
M24	Sunroof Motor	In center of windshield header, near rear view mirror .. 7100.0-25-3
M25	Cruise Control Actuator (Tempomat)	Left center of engine compartment, ahead of shock tower 7100.0-05-2
M30	Blower Motor	Behind center of cowl ..... 7100.0-15-3
M31	Left Footwell Flap Motor	Behind LH side of dash, on LH side of IHKR plenum .. 7100.0-25-1
M32	Right Footwell Flap Motor	Behind RH side of dash, on RH side of IHKR plenum .. 7100.0-29-1
M34	Right Mixing Flap Motor	Behind center of dash, RH side of N9 Radio ..... 7100.0-29-1
M35	Defroster Flap Motor	Behind LH side of dash, on lower LH side of IHKR plenum ..... 7100.0-25-1
M36	Fresh Air Flap Motor	Behind LH side of dash, on LH side of IHKR plenum .. 7100.0-25-1
M37	Water Pump	LH rear of engine compartment, on engine bulkhead .. 7100.0-02-1
M40	Air Circulation Flap Motor	Behind LH side of dash, on LH side of IHKR plenum .. 7100.0-25-1



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
M50	Driver's Seat Cushion Tilt Motor	7100.0-31-3
M51	Driver's Seat Movement Motor	7100.0-32-1
M52	Driver's Seat Height Motor	7100.0-31-3
M53	Driver's Seatback Recliner Motor	7100.0-31-3
M54	Driver's Headrest Motor	7100.0-34-1
M57	Passenger's Seat Headrest Motor	7100.0-34-1
M58	Passenger's Seatback Recliner Motor	7100.0-32-3
M59	Passenger's Seat Height Motor	7100.0-32-3
M60	Passenger's Seat Movement Motor	7100.0-32-3
M61	Passenger's Seat Cushion Tilt Motor	7100.0-32-3
M201	E-Box Fan	7100.0-14-2
N2	Final Stage Unit	7100.0-29-2
N4	On-Board Computer	7100.0-26-2
N8	Antenna Amplifier	7100.0-38-1
N17	Crash Control Unit	LH rear of engine compartment, in P90 Front Power Distribution Box 7100.0-01-1
P90	Front Power Distribution Box	7100.0-02-1
P91	Rear Power Distribution Box	7100.0-34-2
P92	Auxiliary Relay Box	7100.0-05-2
P93	E-Box	7100.0-13-1
R1	Temperature Distribution Potentiometer	7100.0-26-2
S10000	Rear Vent Flap Switch	In rear of console, on rear vent flap
S2	Ignition Switch	7100.0-24-1
S3	Automatic Transmission Range Switch	7100.0-28-1
S4	Horn Switch	Top of steering column, in steering wheel
S7	Combination Switch	7100.0-23-3
S13	Passenger's Door Jamb Switch	In center rear of passenger's door jamb, in latch assembly
S14	Driver's Door Jamb Switch	In center rear of driver's door jamb, in latch assembly
S15	Right Rear Door Jamb Switch	In top of RH rear door jamb, in latch assembly
S16	Left Rear Door Jamb Switch	In top rear of LH rear door jamb, in latch assembly

## COMPONENTS

		Page-Figure
S19.....	Underhood Light Switch .....	LH front of hood ..... 7100.0-07-2
S21.....	Engine Hood Switch .....	LH rear of engine compartment, rear of shock tower ..... 7100.0-01-1
S22.....	Battery Switch .....	Under RH side of rear seat, near battery ..... Not in US
S24.....	Rear Seat Switch .....	Under RH side of rear seat, right of battery ..... Not in US
S27.....	Inertia Switch .....	Below center of rear seat, RH side of P91 Rear Power Distribution Box ..... 7100.0-35-3
S29.....	Brake Light Switch .....	Behind LH side of dash, on brake pedal support bracket ..... 7100.0-22-1
S31.....	Park Brake Switch .....	Below console, on rear of park brake lever ..... 7100.0-28-2
S32.....	Clutch Switch .....	Behind LH side of dash, on clutch pedal support bracket
S36.....	Temperature Switch .....	RH top of radiator ..... 7100.0-08-3
S37.....	Glove Box Light Switch .....	In LH side of glove box ..... 7100.0-28-3
S39.....	Sunroof Position Switch .....	In center of windshield header, near rear view mirror ..... 7100.0-25-3
S43.....	Driver's Window Limit Switch .....	Center front of driver's door ..... 7100.0-30-3
S44.....	Passenger's Window Limit Switch .....	Center front of passenger's door ..... 7100.0-30-3
S45.....	Left Rear Window Limit Switch .....	Center front of LH rear door ..... 7100.0-31-2
S46.....	Right Rear Window Limit Switch .....	Center front of RH rear door ..... 7100.0-31-2
S47.....	Driver's Door Lock Switch .....	Behind driver's door lock assembly
S48.....	Driver's Door Handle Switch .....	In top rear of driver's door, near door handle cable
S49.....	Passenger's Door Lock Switch .....	Behind passenger's door lock assembly
S58.....	Driver's Seat Belt Switch .....	In driver's seat belt buckle
S61.....	Trunk Lid Switch .....	In center of trunk lid, in trunk latch assembly ..... 7100.0-40-1
S63.....	Coolant Level Switch .....	Top of coolant reservoir ..... 7100.0-12-2
S64.....	Washer Fluid Level Switch .....	RH side of washer fluid reservoir ..... 7100.0-09-1
S70.....	Safety Switch .....	LH side of engine compartment, near S71 Left Front Crash Sensor
S71.....	Left Front Crash Sensor .....	Ahead of LH shock tower ..... 7100.0-04-1
S72.....	Right Front Crash Sensor .....	Ahead of RH shock tower ..... 7100.0-11-3
S77.....	Driver's Makeup Mirror Switch .....	In driver's visor
S78.....	Passenger's Makeup Mirror Switch .....	In passenger's visor
S200....	Throttle Switch (M20 Engine) .....	LH rear of engine ..... 7100.0-03-3



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
S200 . . . . .	Throttle Switch (M30 Engine) . . . . .	7100.0-12-2
S301 . . . . .	Transmission Kickdown Switch . . . . .	7100.0-24-3
S302 . . . . .	Back-Up Switch . . . . .	Top RH side of transmission
S901 . . . . .	Passenger's Visor Switch . . . . .	LH hinge of passenger's visor . . . . .
S902 . . . . .	Driver's Visor Switch . . . . .	RH hinge of driver's visor . . . . .
T200 . . . . .	Ignition Coil . . . . .	RH side of engine compartment, at strut tower . . . . .
V6 . . . . .	Diode . . . . .	Behind center of dash
X779 . . . . .	Charging Plug . . . . .	In LH side of glove box . . . . .
Y1 . . . . .	ABS Hydraulic Unit (M30 Engine) . . . . .	LH center of engine compartment, near shock tower . . . . .
Y1 . . . . .	ABS Hydraulic Unit (M20 Engine) . . . . .	LH center of engine compartment, near shock tower . . . . .
Y2 . . . . .	Compressor Clutch . . . . .	Lower RH front of engine . . . . .
Y4 . . . . .	Water Valve Assembly . . . . .	LH rear of engine compartment, on engine bulkhead . . . . .
Y201 . . . . .	Fuel Injector 1 . . . . .	Top of engine, near B207 Coolant Temperature Sender . . . . .
Y202 . . . . .	Fuel Injector 2 . . . . .	Top of engine, on intake manifold . . . . .
Y203 . . . . .	Fuel Injector 3 . . . . .	Top of engine, on intake manifold . . . . .
Y204 . . . . .	Fuel Injector 4 . . . . .	Top of engine, on intake manifold . . . . .
Y205 . . . . .	Fuel Injector 5 . . . . .	Top of engine, on intake manifold . . . . .
Y206 . . . . .	Fuel Injector 6 . . . . .	Top of engine, on intake manifold . . . . .
Y213 . . . . .	Fuel Air Valve (M20 Engine) . . . . .	LH rear of engine . . . . .
Y213 . . . . .	Fuel Air Valve (M30 Engine) . . . . .	LH side of engine, RH side of oil filter . . . . .
Y214 . . . . .	Idle Speed Actuator (M20 Engine) . . . . .	On center rear of throttle body . . . . .
Y214 . . . . .	Idle Speed Actuator (M30 Engine) . . . . .	On center rear of throttle body . . . . .
Y300 . . . . .	Transmission . . . . .	LH rear side of transmission . . . . .
X1.0 . . . . .	Junction Post for Front Power Distribution Box . . . . .	Behind LH side of dash, under carpet . . . . .
X1.1 . . . . .	Junction Post for Front Power Distribution Box . . . . .	LH rear of engine compartment, in P90 Front Power Distribution Box . . . . .
X1.2 . . . . .	Junction Post for Front Power Distribution Box . . . . .	LH rear corner of engine compartment, in P90 Front Power Distribution Box . . . . .
X13 . . . . .	Connector (21 pins) . . . . .	Below LH side of dash, below driver's footrest (White) . . . . .
X14 . . . . .	Connector (30 pins) . . . . .	Below LH side of dash, below driver's footrest (Yellow) . . . . .

## COMPONENTS

		Page-Figure
X15.....	Connector (30 pins).....	Below LH side of dash, near kick panel .....
X16.....	Connector (26 pins).....	Behind LH side of dash, on rear of A2 Instrument Cluster (Yellow).....
X17.....	Connector (24 pins).....	Behind LH side of dash, on rear of A2 Instrument Cluster (Brown).....
X18.....	Connector (26 pins).....	LH rear of engine compartment, on A4 Check Control Module (Blue)
X19.....	Connector (26 pins).....	LH rear of engine compartment, on A4 Check Control Module (Green)
X20.....	Connector (20 pins).....	LH rear of engine compartment, near shock tower .....
X22.....	Connector (26 pins).....	RH rear of engine compartment, on A8 Cruise Control Module (Tempomat)(Blue) .....
X31.....	Connector (12 pins).....	LH center of engine compartment, on Y1 ABS Hydraulic Unit, under plastic cover
X32.....	Connector (12 pins).....	Behind LH side of dash, LH side of steering column.....
X33.....	Connector (12 pins).....	Behind LH side of dash, near kick panel .....
X34.....	Connector (21 pins).....	Behind LH side of dash, near kick panel .....
X35.....	Connector (21 pins).....	Behind LH side of dash, near kick panel .....
X61.....	Connector (9 pins).....	LH rear of engine compartment, inside P92 Auxiliary Relay Box .....
X62.....	Connector (9 pins).....	LH rear of engine compartment, in P90 Front Power Distribution Box .....
X71.....	Connector (8 pins).....	Above E26 Left Fog Light .....
X72.....	Connector (8 pins).....	Behind LH side of dash, LH side of steering column.....
X74.....	Connector (8 pins).....	Behind LH side of dash, above footrest .....
X75.....	Connector (6 pins).....	Behind LH side of dash, above footrest .....
X79.....	Connector (4 pins).....	In P93 E-Box, behind RH front shock tower .....
X81.....	Connector (3 pins).....	Ahead of LH shock tower .....
X83.....	Connector (3 pins).....	Inside LH kick panel (Yellow).....
X84.....	Connector (3 pins).....	Inside LH kick panel (Yellow).....



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
X85 . . . . .	Connector (3 pins) . . . . .	7100.0-01-3
X86 . . . . .	Connector (3 pins) . . . . .	7100.0-11-3
X88 . . . . .	Connector (3 pins) . . . . .	7100.0-22-3
X105 . . . . .	Connector (2 pins) . . . . .	7100.0-07-3
X106 . . . . .	Connector (2 pins) . . . . .	7100.0-08-1
X110 . . . . .	Connector (2 pins) . . . . .	7100.0-09-1
X113 . . . . .	Connector (2 pins) . . . . .	7100.0-11-2
X114 . . . . .	Connector (2 pins) . . . . .	7100.0-04-2
X118 . . . . .	Connector (2 pins) . . . . .	7100.0-16-3
X120 . . . . .	Connector (2 pins) . . . . .	7100.0-04-2
X121 . . . . .	Connector (2 pins) . . . . .	7100.0-22-3
X122 . . . . .	Connector (2 pins) . . . . .	7100.0-01-3
X126 . . . . .	Connector (2 pins) . . . . .	7100.0-09-2
X127 . . . . .	Connector (2 pins) . . . . .	7100.0-09-2
X146 . . . . .	Connector (1 pin) . . . . .	7000.0-00-1
X163 . . . . .	Connector (3 pins) . . . . .	7100.0-11-1
X165 . . . . .	Ground (Dash) . . . . .	7100.0-22-1
X166 . . . . .	Ground . . . . .	7100.0-09-2
X167 . . . . .	Ground . . . . .	7100.0-06-2
X170 . . . . .	Terminal Post . . . . .	7100.0-04-2
X175 . . . . .	Ground . . . . .	7100.0-06-2
X179 . . . . .	Ground . . . . .	7100.0-09-2
X251 . . . . .	Connector (30 pins) . . . . .	7100.0-22-1
X252 . . . . .	Connector (26 pins) . . . . .	7100.0-35-1
X253 . . . . .	Connector (26 pins) . . . . .	7100.0-01-1



## COMPONENT LOCATION CHART

### COMPONENTS

Page-Figure

X254 . . . . Connector (26 pins) . . . . .	Below LH side of rear seat, on A1 General Module (White)	
X255 . . . . Connector (26 pins) . . . . .	Below LH side of rear seat, on A1 General Module (Yellow)	
X256 . . . . Connector (26 pins) . . . . .	Inside front of RH front door jamb, in wire grommet housing. . . . .	7100.0-30-1
X257 . . . . Connector (26 pins) . . . . .	Inside front of LH front door jamb, in wire grommet housing. . . . .	7100.0-30-1
X258 . . . . Connector (20 pins) . . . . .	Below LH side of rear seat, on A5 Relay Module (White)	
X259 . . . . Connector (20 pins) . . . . .	Below LH side of rear seat, on A5 Relay Module (Black)	
X260 . . . . Connector (21 pins) . . . . .	Below RH side of rear seat, near battery (Black). . . . .	7100.0-37-3
X262 . . . . Connector (26 pins) . . . . .	Below LH side of rear seat. . . . .	7100.0-34-2
X269 . . . . Connector (6 pins) . . . . .	Below LH side of rear seat. . . . .	7100.0-34-3
X271 . . . . Connector (12 pins) . . . . .	Behind LH side of dash, on rear of A2 Instrument Cluster (Gray) . . . . .	7100.0-24-2
X272 . . . . Connector (12 pins) . . . . .	Below LH side of rear seat, near P91 Rear Power Distribution Box . . . . .	7100.0-34-2
X273 . . . . Connector (12 pins) . . . . .	Inside front of LH rear door jamb, in wire grommet housing. . . . .	7100.0-30-2
X274 . . . . Connector (12 pins) . . . . .	Inside front of RH rear door jamb, in wire grommet housing. . . . .	7100.0-30-2
X275 . . . . Connector (12 pins) . . . . .	Under driver's seat . . . . .	7100.0-32-1
X277 . . . . Connector (10 pins) . . . . .	Inside front of LH rear door jamb, in wire grommet housing. . . . .	7100.0-30-2
X278 . . . . Connector (10 pins) . . . . .	Inside front of RH rear door jamb, in wire grommet housing. . . . .	7100.0-30-2
X279 . . . . Connector (12 pins) . . . . .	Under passenger's seat . . . . .	7100.0-33-2
X295 . . . . Connector (8 pins) . . . . .	Behind LH side of dash, LH side of steering column. . . . .	7100.0-22-2
X297 . . . . Connector (9 pins) . . . . .	Below LH side of rear seat	
X316 . . . . Connector (6 pins) . . . . .	On S40 Front Console Window Switch Assembly (White) . . . . .	7100.0-28-2
X317 . . . . Connector (6 pins) . . . . .	On S40 Front Console Window Switch Assembly (Black) . . . . .	7100.0-28-2



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
X318 . . .	Connector (4 pins) . . . . .	In trunk, behind E17 Right Rear Light Assembly . . . . . 7100.0-39-2
X319 . . .	Connector (4 pins) . . . . .	In trunk, behind E16 Left Rear Light Assembly . . . . . 7100.0-39-1
X322 . . .	Connector (6 pins) . . . . .	Below LH side of rear seat, near P91 Rear Power Distribution Box . . . . . 7100.0-34-2
X328 . . .	Connector (4 pins) . . . . .	RH side of trunk lid, on E47 Right Trunk Light Assembly . . . . . 7100.0-40-2
X329 . . .	Connector (4 pins) . . . . .	LH side of trunk lid, on E46 Left Trunk Light Assembly . . . . . 7100.0-39-3
X331 . . .	Connector (5 pins) . . . . .	Below LH side of rear seat, on K91 On-Board Computer Horn Relay (Green) . . . . .
X332 . . .	Connector (5 pins) . . . . .	Below LH side of rear seat, on A1 General Module (White) . . . . .
X333 . . .	Connector (4 pins) . . . . .	Behind LH fresh air cowl . . . . . 7100.0-00-1
X334 . . .	Connector (4 pins) . . . . .	Behind LH fresh air cowl . . . . . 7100.0-00-1
X335 . . .	Connector (4 pins) . . . . .	Below LH side of rear seat, on K91 On-Board Computer Horn Relay (Green) . . . . .
X336 . . .	Connector (4 pins) . . . . .	In center of windshield header . . . . . 7100.0-25-3
X337 . . .	Connector (4 pins) . . . . .	Below LH side of rear seat . . . . . 7100.0-34-3
X342 . . .	Connector (4 pins) . . . . .	Behind RH side of dash, above RH kick panel . . . . . 7100.0-29-3
X355 . . .	Connector (3 pins) . . . . .	In RH "C" pillar . . . . . 7100.0-38-2
X356 . . .	Connector (3 pins) . . . . .	In LH "C" pillar . . . . . 7100.0-38-1
X358 . . .	Connector (3 pins) . . . . .	In RH rear of trunk lid . . . . . 7100.0-40-2
X360 . . .	Connector (2 pins) . . . . .	In LH side of windshield header, above LH visor . . . . .
X371 . . .	Connector (2 pins) . . . . .	Behind LH fresh air cowl . . . . . 7100.0-00-1
X374 . . .	Connector (2 pins) . . . . .	Below RH side of rear seat . . . . . 7100.0-37-2
X375 . . .	Connector (2 pins) . . . . .	Below RH side of rear seat . . . . . 7100.0-37-1
X376 . . .	Connector (2 pins) . . . . .	Below LH side of rear seat, behind P91 Rear Power Distribution Box . . . . . 7100.0-34-2
X377 . . .	Connector (2 pins) . . . . .	Below RH side of rear seat, behind battery . . . . . 7100.0-37-1
X393 . . .	Connector (6 pins) . . . . .	In LH rear corner of trunk . . . . . 7100.0-39-1
X400 . . .	Connector (3 pins) . . . . .	LH rear corner of trunk . . . . . 7100.0-39-1
X416 . . .	Connector (2 pins) . . . . .	LH side of windshield header, near LH visor . . . . .
X417 . . .	Connector (2 pins) . . . . .	RH side of windshield header, near RH visor . . . . .

## COMPONENTS

		Page-Figure
X418 . . . . .	Connector (1 pin) . . . . .	Below LH side of rear seat. . . . . 7100.0-35-1
X490 . . . . .	Ground . . . . .	Behind LH side of dash, LH side of steering column. . . . . 7100.0-22-1
X491 . . . . .	Ground . . . . .	Behind LH side of dash, LH side of steering column. . . . . 7100.0-22-1
X492 . . . . .	Ground . . . . .	Below LH side of rear seat, near P91 Rear Power Distribution Box . . . . . 7100.0-35-2
X493 . . . . .	Ground . . . . .	Below LH side of rear seat, near P91 Rear Power Distribution Box . . . . . 7100.0-35-2
X495 . . . . .	Ground . . . . .	Below RH side of rear seat, RH side of battery. . . . . 7100.0-36-3
X496 . . . . .	Ground . . . . .	Below RH side of rear seat, RH side of battery. . . . . 7100.0-36-3
X497 . . . . .	Ground (Battery) . . . . .	Ahead of RH side of rear seat, under carpet. . . . . 7100.0-36-2
X501 . . . . .	Connector (26 pins) . . . . .	Behind center of dash, on N4 On-Board Computer
X502 . . . . .	Connector (26 pins) . . . . .	Behind LH side of dash, on rear of A2 Instrument Cluster (White) . . . . . 7100.0-24-2
X506 . . . . .	Connector (12 pins) . . . . .	Below center console, front of gear shifter . . . . . 7100.0-28-1
X511 . . . . .	Connector (8 pins) . . . . .	Below center console . . . . . 7100.0-28-1
X512 . . . . .	Connector (8 pins) . . . . .	Behind RH side of dash, taped to harness
X514 . . . . .	Connector (6 pins) . . . . .	Behind center of dash, in harness
X518 . . . . .	Connector (4 pins) . . . . .	Behind LH side of dash, on H10 Chime Module (Black) . . . . . 7100.0-21-3
X522 . . . . .	Connector (3 pins) . . . . .	Behind LH side of dash, on H10 Chime Module (White) . . . . . 7100.0-21-3
X526 . . . . .	Connector (8 pins) . . . . .	Below LH side of dash, at kick panel . . . . . 7100.0-22-2
X539 . . . . .	Connector (2 pins) . . . . .	Behind center of dash, LH side of N9 Radio
X546 . . . . .	Connector (2 pins) . . . . .	Below center console, LH side of manual gear selector . . . . . 7100.0-27-3
X605 . . . . .	Connector (12 pins) . . . . .	LH side of trunk, on A18 HIFI Amplifier (Black)
X606 . . . . .	Connector (12 pins) . . . . .	LH side of trunk, on A18 HIFI Amplifier (White)
X610 . . . . .	Connector (26 pins) . . . . .	Behind center of dash, on A9000 Integrated Climate Regulation Control Unit (IHKR) (White) . . . . . 7100.0-25-2
X611 . . . . .	Connector (26 pins) . . . . .	Behind center of dash, on A9000 Integrated Climate Regulation Control Unit (IHKR) (Green) . . . . . 7100.0-25-2
X612 . . . . .	Connector (26 pins) . . . . .	Behind center of dash, on S9000 Integrated Climate Regulation Switch (IHKR) (Blue) . . . . . 7100.0-27-2



## COMPONENT LOCATION CHART

### COMPONENTS

Page-Figure

X613 . . . . Connector (26 pins) . . . . .	Behind center of dash, on A9000 Integrated Climate Regulation Control Unit (IHKR) (Blue) . . . . .	7100.0-29-2
X614 . . . . Connector (26 pins) . . . . .	Behind center of dash, on A9000 Integrated Climate Regulation Control Unit (IHKR) (Yellow) . . . . .	7100.0-29-2
X623 . . . . Connector (4 pins) . . . . .	In top front of driver's door . . . . .	
X624 . . . . Connector (4 pins) . . . . .	In top front of passenger's door . . . . .	
X627 . . . . Connector (8 pins) . . . . .	In center of windshield header . . . . .	7100.0-25-3
X633 . . . . Connector (8 pins) . . . . .	Behind center of dash, near N9 Radio . . . . .	7100.0-26-3
X638 . . . . Connector (8 pins) . . . . .	Below trunk, RH side of spare tire . . . . .	7100.0-38-3
X652 . . . . Connector (6 pins) . . . . .	Under driver's seat . . . . .	7100.0-32-1
X659 . . . . Connector (6 pins) . . . . .	Under passenger's seat . . . . .	7100.0-33-3
X684 . . . . Connector (3 pins) . . . . .	In passenger's door, near door handle . . . . .	7100.0-31-1
X685 . . . . Connector (3 pins) . . . . .	In driver's door, near door handle . . . . .	7100.0-31-1
X692 . . . . Connector (3 pins) . . . . .	Behind center of dash, behind LH side of N9 Radio . . . . .	7100.0-27-1
X693 . . . . Connector (3 pins) . . . . .	Behind center of dash, on S9000 Integrated Climate Regulation Switch (IHKR) (Black) . . . . .	7100.0-27-2
X702 . . . . Connector (2 pins) . . . . .	Behind center of dash, on N9 Radio (White) . . . . .	7100.0-26-3
X703 . . . . Connector (2 pins) . . . . .	Behind center of dash, on N9 Radio (Black) . . . . .	7100.0-26-3
X705 . . . . Connector (2 pins) . . . . .	Below car, near RH rear suspension frame attachment point . . . . .	7100.0-20-1
X713 . . . . Connector (2 pins) . . . . .	At RH rear wheel, above brake caliper . . . . .	7100.0-17-3
X714 . . . . Connector (2 pins) . . . . .	In lower rear of LH rear door . . . . .	7100.0-31-2
X715 . . . . Connector (2 pins) . . . . .	In center rear of LH rear door . . . . .	7100.0-31-2
X720 . . . . Connector (2 pins) . . . . .	In lower rear of RH rear door . . . . .	7100.0-31-2
X721 . . . . Connector (2 pins) . . . . .	In center rear of RH rear door . . . . .	7100.0-31-2
X726 . . . . Connector (2 pins) . . . . .	Under RH side of driver's seat . . . . .	7100.0-32-1
X727 . . . . Connector (2 pins) . . . . .	Under LH side of driver's seat . . . . .	7100.0-32-2
X728 . . . . Connector (2 pins) . . . . .	Under front of driver's seat . . . . .	7100.0-31-3
X729 . . . . Connector (2 pins) . . . . .	Under front of driver's seat . . . . .	7100.0-31-3
X731 . . . . Connector (2 pins) . . . . .	Inside RH side of driver's seatback . . . . .	7100.0-34-1



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
X732	Connector (2 pins) . . . . .	In driver's seatback, near driver's seatback heater . . . . . 7100.0-34-1
X733	Connector (2 pins) . . . . .	Under RH side of driver's seat . . . . . 7100.0-32-1
X734	Connector (2 pins) . . . . .	Under RH side of passenger's seat . . . . . 7100.0-33-2
X735	Connector (2 pins) . . . . .	Under LH side of passenger's seat . . . . . 7100.0-33-3
X736	Connector (2 pins) . . . . .	Under front of passenger's seat . . . . . 7100.0-33-1
X737	Connector (2 pins) . . . . .	Under front of passenger's seat . . . . . 7100.0-33-1
X738	Connector (2 pins) . . . . .	Inside RH side of passenger's seatback . . . . . 7100.0-34-1
X740	Connector (2 pins) . . . . .	Under RH side of passenger's seat . . . . . 7100.0-33-1
X741	Connector (2 pins) . . . . .	In passenger's seatback, near passenger's seatback heater . . . . . 7100.0-34-1
X742	Connector (2 pins) . . . . .	In passenger's door, near door handle . . . . . 7100.0-31-1
X743	Connector (2 pins) . . . . .	In center front of passenger's door . . . . . 7100.0-30-3
X744	Connector (2 pins) . . . . .	In lower front of passenger's door . . . . . 7100.0-30-3
X747	Connector (2 pins) . . . . .	In driver's door, near door handle . . . . . 7100.0-31-1
X749	Connector (2 pins) . . . . .	In lower front of driver's door . . . . . 7100.0-30-3
X750	Connector (2 pins) . . . . .	In center front of passenger's door . . . . . 7100.0-30-3
X751	Connector (2 pins) . . . . .	In driver's door, near door handle . . . . . 7100.0-31-1
X752	Connector (2 pins) . . . . .	In driver's door, near door handle . . . . . 7100.0-31-1
X770	Connector (2 pins) . . . . .	Under LH side of front bumper . . . . . 7100.0-16-2
X771	Connector (2 pins) . . . . .	Behind LH side of dash, on lower LH side of IHKR plenum . . . . . 7100.0-25-2
X778	Connector (2 pins) . . . . .	Under driver's seat, near base of driver's seat belt buckle . . . . . 7100.0-32-2
X783	Connector (2 pins) . . . . .	Below steering column . . . . . 7100.0-24-1
X784	Connector (2 pins) . . . . .	Behind LH side of dash, at kick panel . . . . . 7100.0-22-1
X789	Connector (2 pins) . . . . .	Rear of car, near differential . . . . . 7100.0-20-2
X800	Connector (2 pins) . . . . .	Inside LH kick panel . . . . . 7100.0-20-3
X803	Connector (2 pins) . . . . .	Behind center of dash, on N9 Radio (Black) . . . . . 7100.0-27-1
X804	Connector (2 pins) . . . . .	Behind center of dash, on N9 Radio (White) . . . . . 7100.0-27-1
X813	Connector (1 pin) . . . . .	Behind center of dash, on N9 Radio (Black) . . . . . 7100.0-27-1
X815	Connector (1 pin) . . . . .	Behind center of dash, near N9 Radio . . . . . 7100.0-27-1



## COMPONENT LOCATION CHART

### COMPONENTS

		Page-Figure
X818 . . .	Ground . . . . .	7100.0-22-1
X910 . . .	B+ Junction Post . . . . .	7100.0-01-3
X948 . . .	Connector (1 pin) . . . . .	7100.0-38-1
X949 . . .	Connector (1 pin) . . . . .	7100.0-38-1
X951 . . .	Connector (1 pin) . . . . .	7100.0-38-2
X952 . . .	Connector (1 pin) . . . . .	7100.0-38-2
X953 . . .	Connector (1 pin) . . . . .	7100.0-38-1
X955 . . .	Ground (Battery) . . . . .	7100.0-18-3
X960 . . .	B+ Junction Post . . . . .	7100.0-25-1
X962 . . .	B+ Junction Post . . . . .	7100.0-09-3
X963 . . .	B+ Junction Post . . . . .	7100.0-36-1
X964 . . .	B+ Junction Post . . . . .	7100.0-03-1
X1521 . . .	Conector (3 pins) (M20 Engine) . . . . .	7100.0-06-1
X1521 . . .	Connector (3 pins) (M30 Engine) . . . . .	7100.0-10-2
X1522 . . .	Connector (3 pins) (M20 Engine) . . . . .	7100.0-06-1
X1522 . . .	Connector (3 pins) (M30 Engine) . . . . .	7100.0-10-2
X1523 . . .	Connector (4 pins) (M20 Engine) . . . . .	7100.0-15-1
X1523 . . .	Connector (4 pins) (M30 Engine) . . . . .	7100.0-04-3
X1525 . . .	Connector (3 pins) (M20 Engine) . . . . .	7100.0-07-1
X1525 . . .	Connector (3 pins) (M30 Engine) . . . . .	7100.0-05-1
X1532 . . .	Diagnostic Connector D100 (20 pins) . . . . .	7100.0-01-3
X1533 . . .	Connector (3 pins) . . . . .	7100.0-04-3
X1537 . . .	Connector (8 pins) . . . . .	7100.0-14-1
X1540 . . .	B+ Junction Post for E-Box . . . . .	7100.0-13-2
X1541 . . .	Ground . . . . .	7100.0-14-3
X1542 . . .	Ground . . . . .	7100.0-14-3
X1563 . . .	Connector (7 pins) . . . . .	7100.0-03-1
X2001 . . .	Connector (12 pins) . . . . .	7100.0-29-3
X2005 . . .	Connector (8 pins) . . . . .	7100.0-19-2
X2008 . . .	Ground . . . . .	7100.0-37-2



## COMPONENT LOCATION CHART

### COMPONENTS

Page-Figure

X9000 . . . Connector (2 pins) . . . . .	Behind center of dash, on N9 Radio (Black) . . . . .	7100.0-26-3
X9997 . . . Connector (2 pins) . . . . .	Inside steering wheel, on G5 Driver's Air Bag Generator .	7100.0-23-2

## COMPONENT LOCATION VIEWS

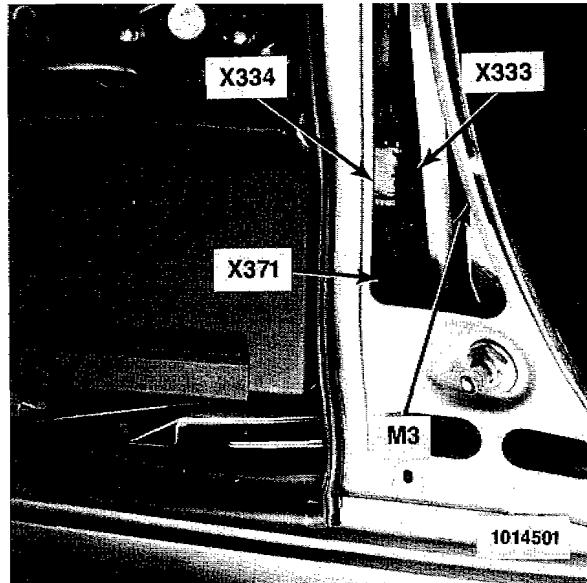


Figure 1- Behind LH Fresh Air Cowl

M3 Wiper Motor  
X333 Connector (4 pins) SW  
X334 Connector (4 pins) WS  
X371 Connector (2 pins) SW

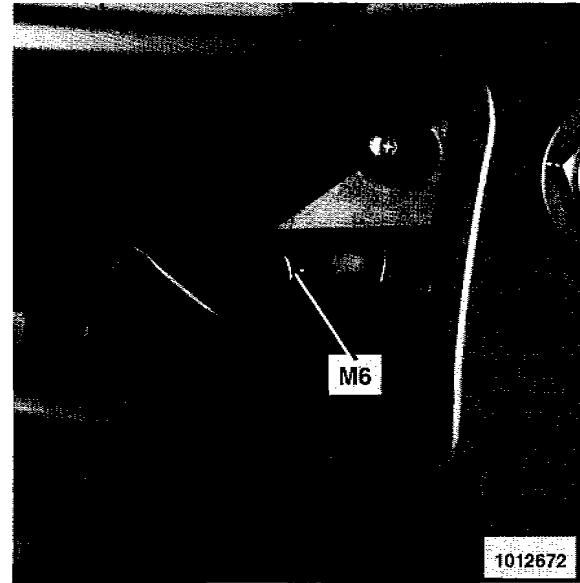


Figure 2- Behind LH Fresh Air Cowl

M6 Wiper Pressure Control Motor (ADV)

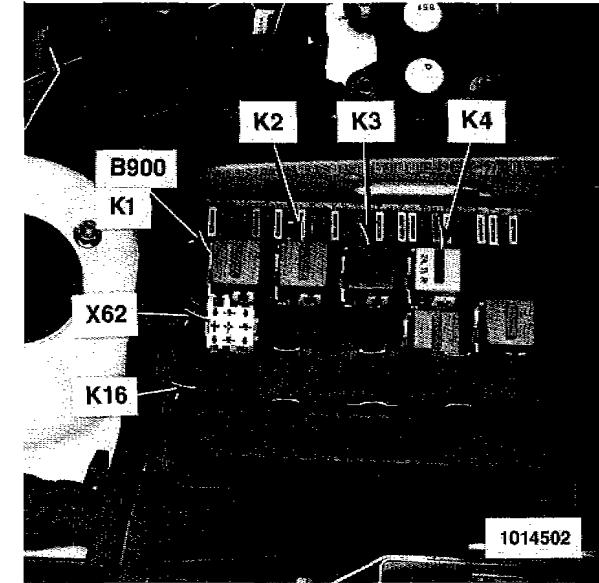


Figure 3- LH Rear Corner Of Engine Compartment

B900 Jumper Plug  
K1 Starter Relay  
K2 Horn Relay  
K3 Unloader Relay, KLR  
K4 Blower Relay  
K16 Hazard Flasher Relay  
X62 Connector (9 pins) WS

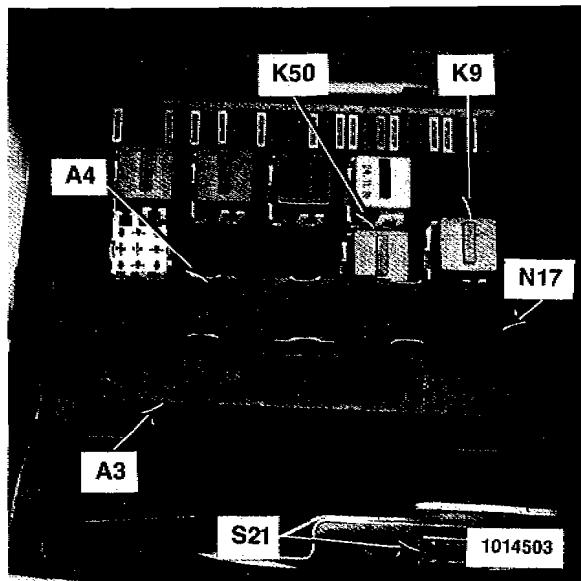


Figure 1- LH Rear Corner Of Engine Compartment

A3 Lamp Control Module  
A4 Check Control Module  
K9 Unloader Relay, KL15  
K50 Water Pump Relay  
N17 Crash Control Unit  
S21 Engine Hood Switch

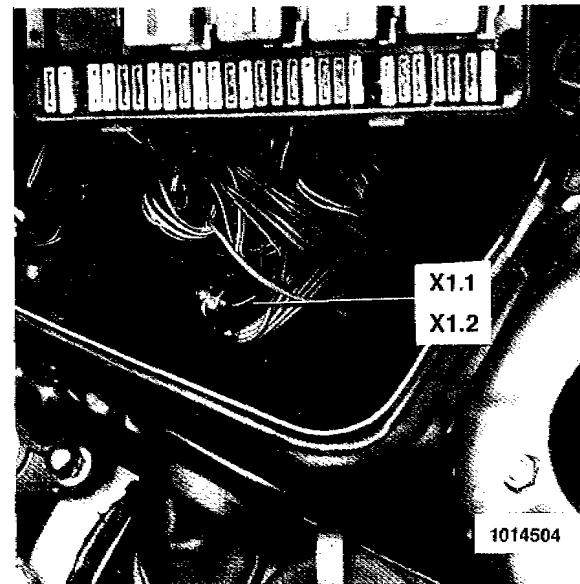


Figure 2- LH Rear Corner Of Engine Compartment

X1.1 Junction Post For Front Power Distribution Box  
X1.2 Junction Post For Front Power Distribution Box

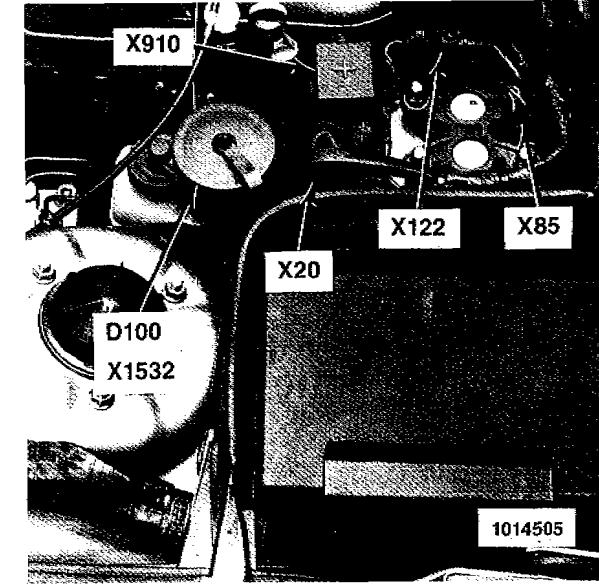
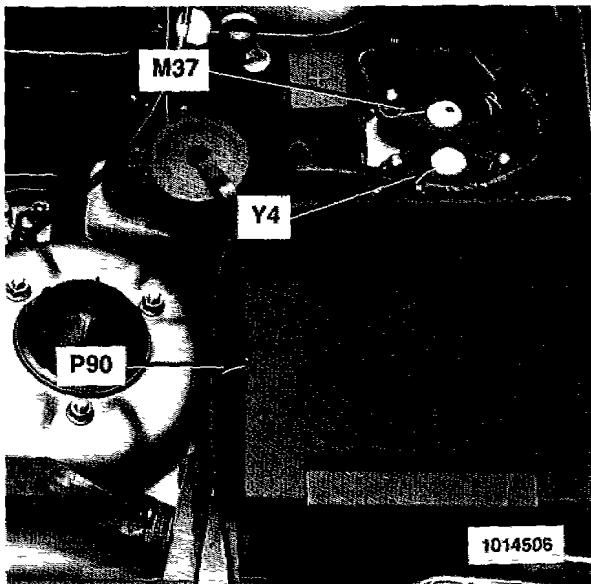


Figure 3- LH Rear Of Engine Compartment (M30 Engine Shown; M20 Engine Similar)

D100 Diagnostic Connector  
X20 Connector (20 pins) SW  
X85 Conenctor (3 pins) SW  
X122 Connector (2 pins) SW  
X1532 Diagnostic Connector (20 pins) SW  
X910 B+ Junction Post

## COMPONENT LOCATION VIEWS



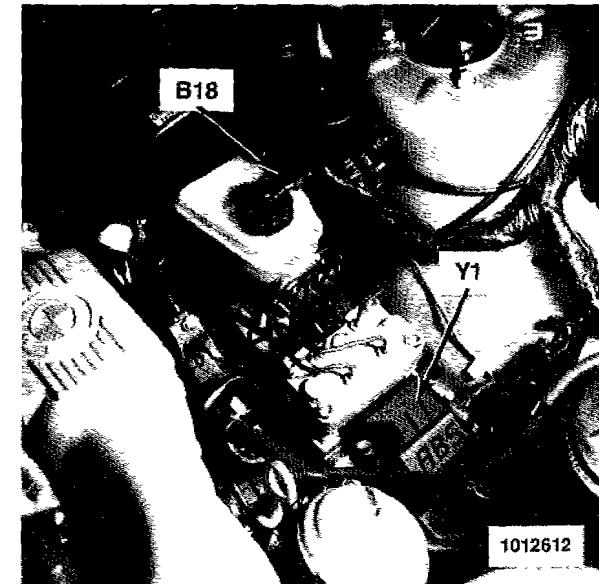
**Figure 1- LH Rear Of Engine Compartment (M30 Engine Shown, M20 Engine Similar)**

- M37 Water Pump (Under the Water Valves)
- P90 Front Power Distribution Box
- Y4 Water Valve Assembly



**Figure 2- LH Side Of Engine Compartment (M20 Engine)**

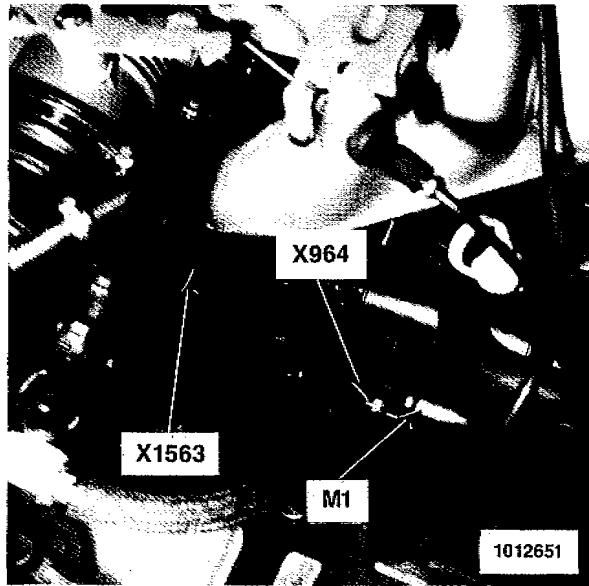
- M18 Brake Fluid Level Switch
- Y1 ABS Hydraulic Unit



**Figure 3- LH Side Of Engine Compartment (M30 Engine)**

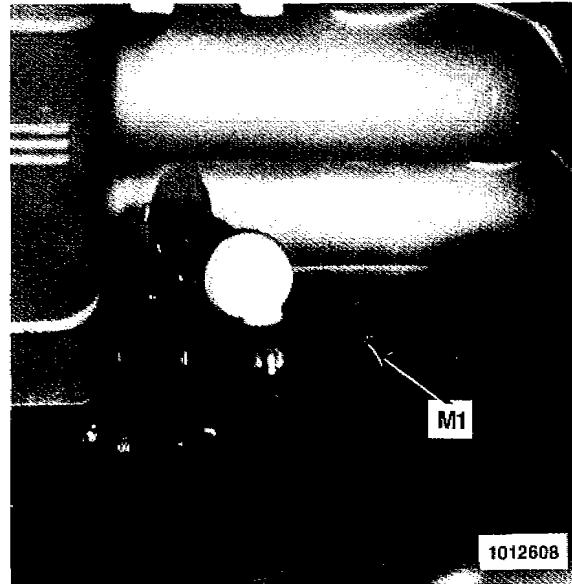
- B18 Brake Fluid Level Switch
- Y1 ABS Hydraulic Unit

## COMPONENT LOCATION VIEWS



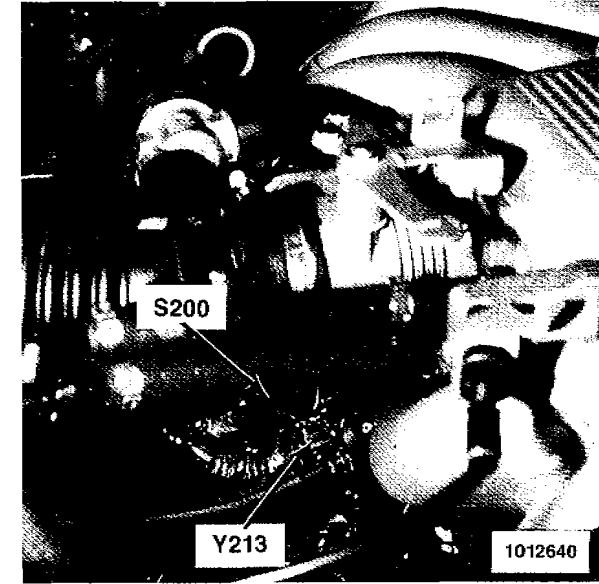
**Figure 1- LH Side Of Engine Compartment (M20 Engine)**

M1 Starter  
X964 B+ Junction Post  
X1563 Connector (7 pins) SW



**Figure 2- LH Rear Of Engine (M30 Engine)**

M1 Starter



**Figure 3- LH Rear Of Engine (M20 Engine)**

S200 Throttle Switch  
Y213 Evaporative Purge Valve

## COMPONENT LOCATION VIEWS

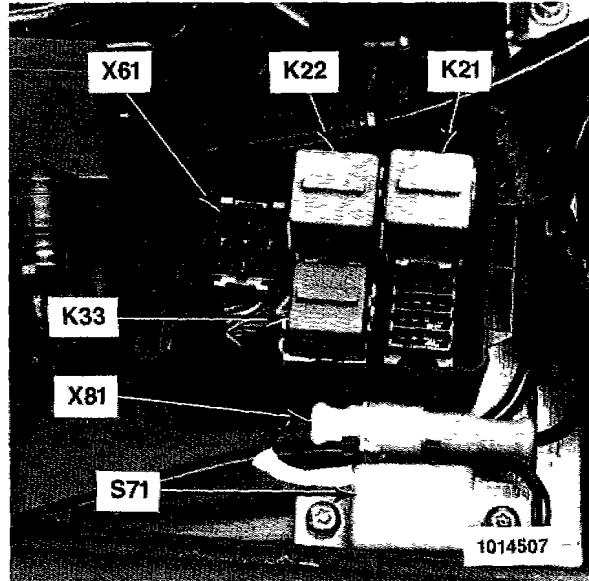


Figure 1- Top LH Side Of Engine Compartment (M30 Engine Shown, M20 Engine Similar)

- K21 Normal Speed Relay
- K22 High Speed Relay
- K33 Air Conditioning Relay
- S71 Left Front Crash Sensor
- X61 Connector (9 pins) SW
- X81 Connector (3 pins) OR

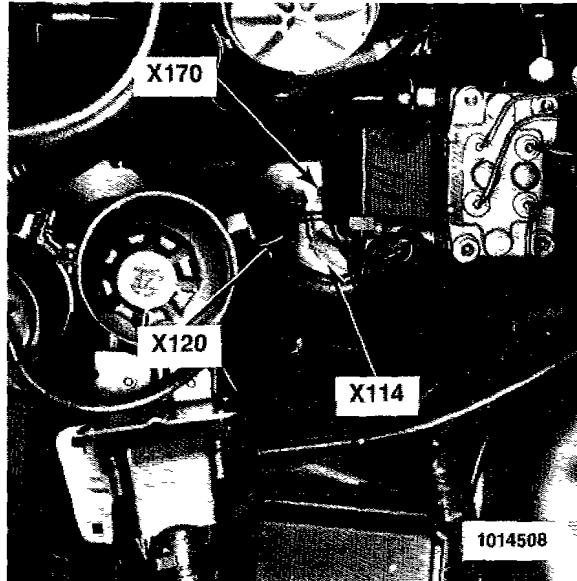


Figure 2- Lower LH Side Of Engine Compartment (M30 Engine Shown, M20 Engine Similar)

- X114 Connector (2 pins) WS
- X120 Connector (2 pins) SW
- X170 Terminal Post

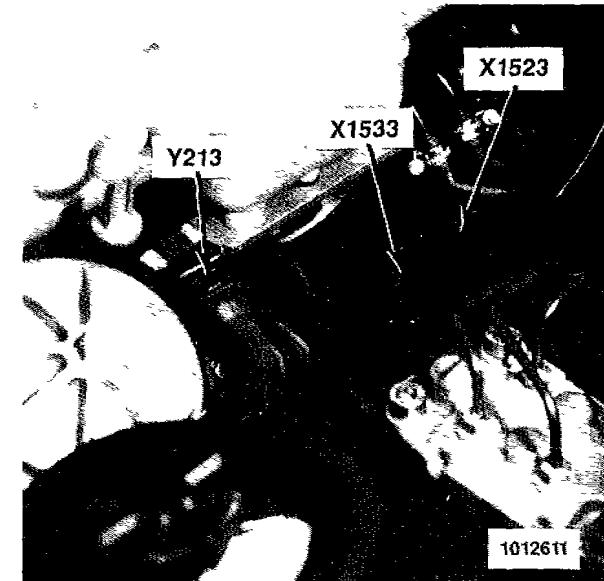


Figure 3- Lower LH Side of Engine (M30 Engine)

- Y213 Evaporative Purge Valve
- X1523 Connector (4 pins) SW
- X1533 Connector (3 pins) SW

## COMPONENT LOCATION VIEWS

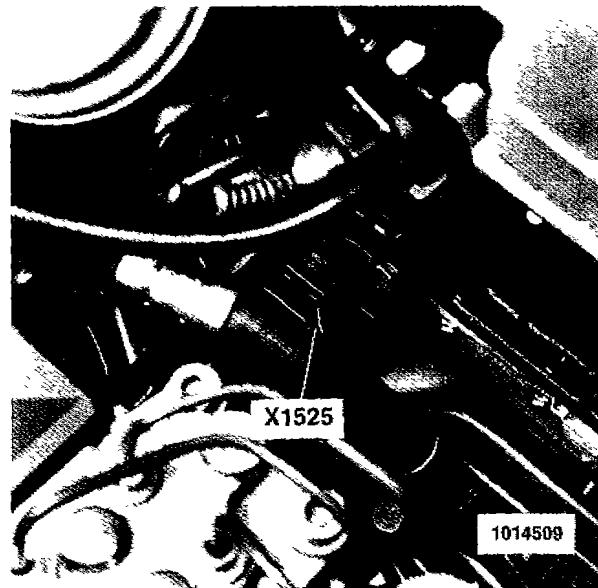


Figure 1- Lower LH Side Of Engine (M30 Engine)

X1525 Connector (3 pins) SW

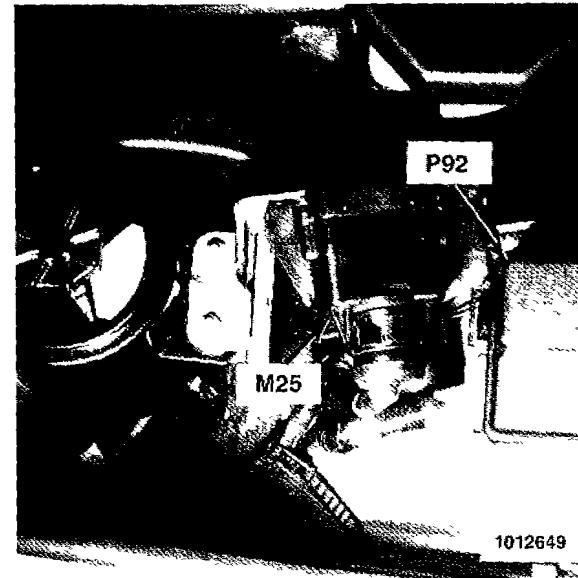


Figure 2- LH Side Of Engine Compartment (M20 Engine shown, M30 Engine Similar)

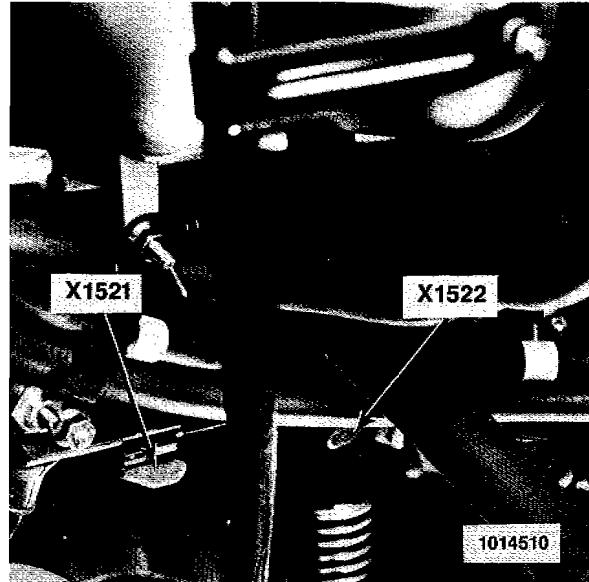
M25 Cruise Control Actuator (Tempomat)  
P92 Auxiliary Relay Box



Figure 3- Top LH Side Of Engine Compartment (M20 Engine)

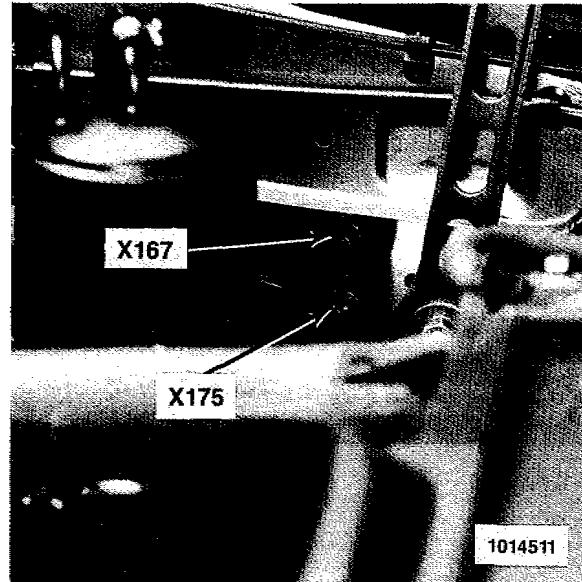
B208 Air Flow Meter  
Y214 Idle Speed Actuator

## COMPONENT LOCATION VIEWS



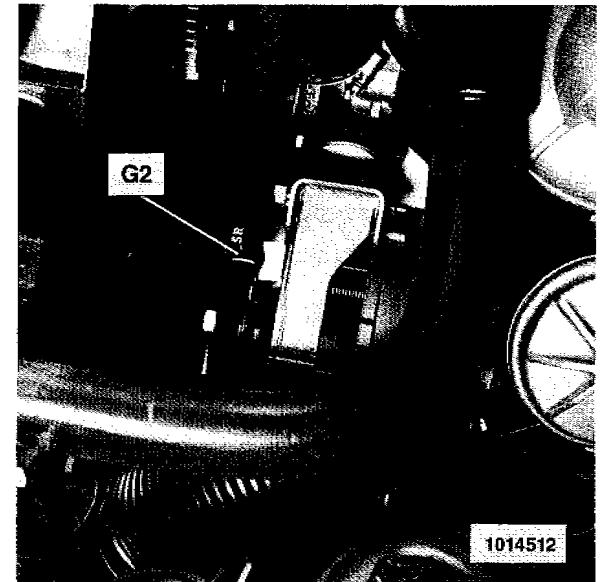
**Figure 1- Lower LH Side Of Engine (M20 Engine) (Air Cleaner Assembly Removed)**

X1521 Connector (3 pins) SW  
X1522 Connector (3 pins) SW



**Figure 2- LH Front Of Engine Compartment (M30 Engine Shown; M20 Engine Similar)**

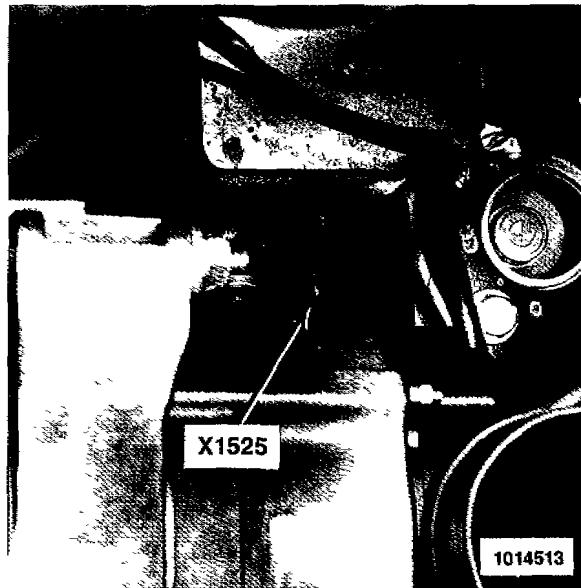
X167 Ground  
X175 Ground



**Figure 3- Lower LH Front Of Engine Compartment (M30 Engine Shown; M20 Engine Similar)**

G2 Alternator

## COMPONENT LOCATION VIEWS



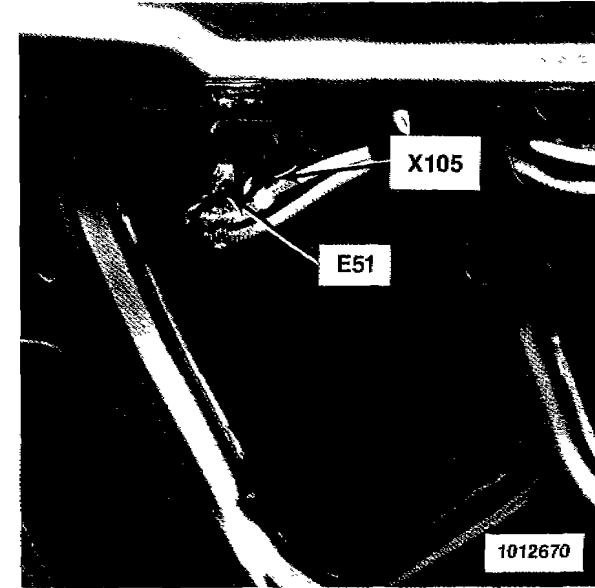
**Figure 1- Lower LH Front Of Engine (M20 Engine) (Air Flow Assembly Removed)**

X1525 Connector (3 pins) SW



**Figure 2- LH Front Of Engine Hood**

S19 Underhood Light Switch



**Figure 3- Rear Of Engine Compartment Hood**

E51 Left Washer Jet Heater  
X105 Connector (2 pins) SW

## COMPONENT LOCATION VIEWS

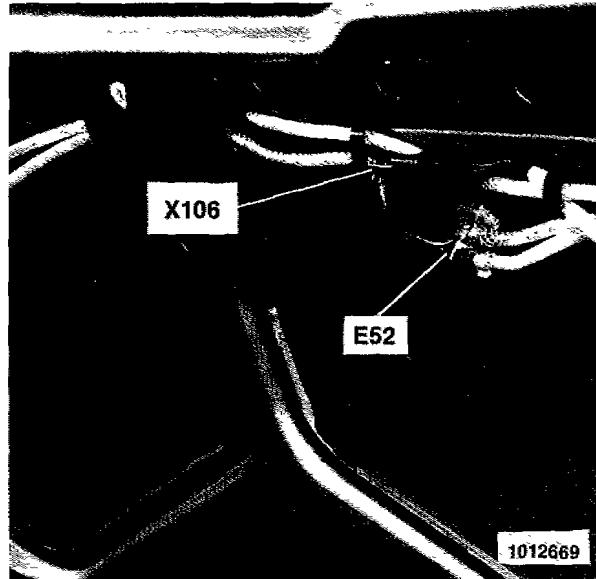


Figure 1- Rear Of Engine Compartment Hood

E52 Right Washer Jet Heater  
X106 Connector (2 pins) SW

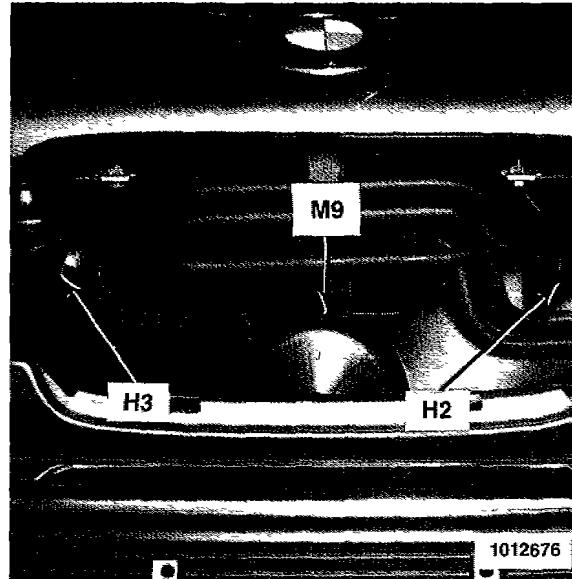


Figure 2- Front Of Car (Grille Removed)

H2 Left Horn  
H3 Right Horn  
M9 Auxiliary Fan Motor

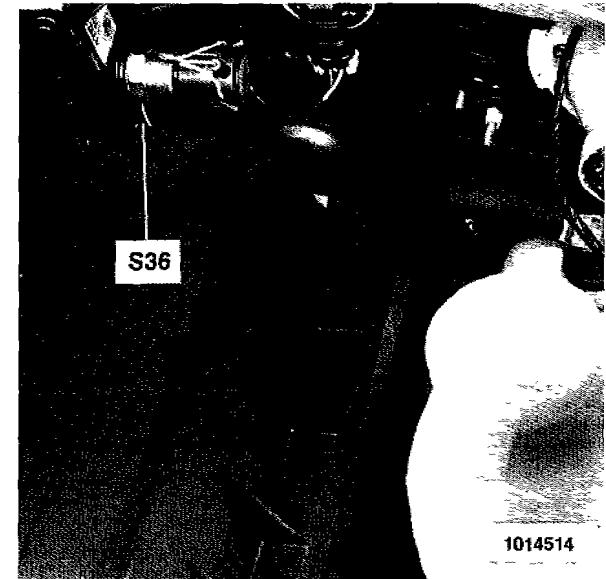
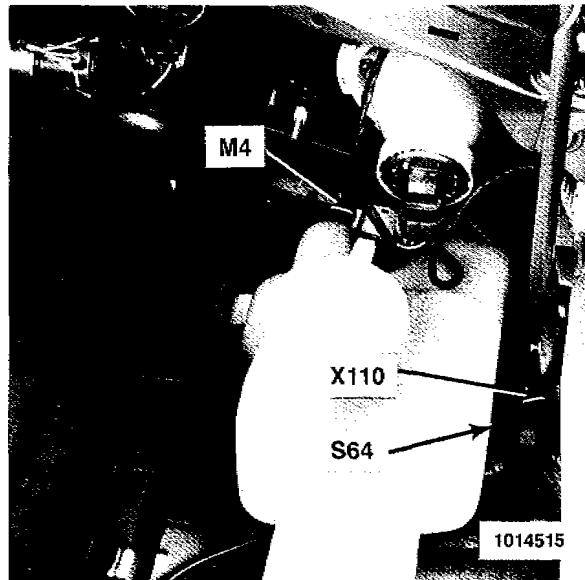


Figure 3- RH Front Of Engine Compartment (M30 Engine Shown, M20 Engine Similar)

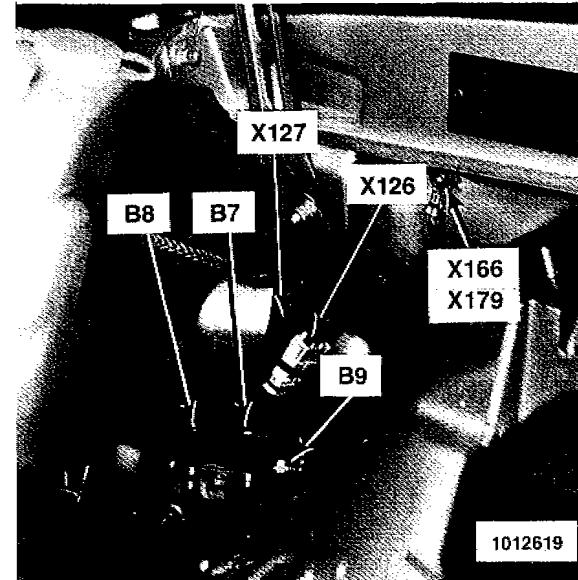
S36 Temperature Switch

## COMPONENT LOCATION VIEWS



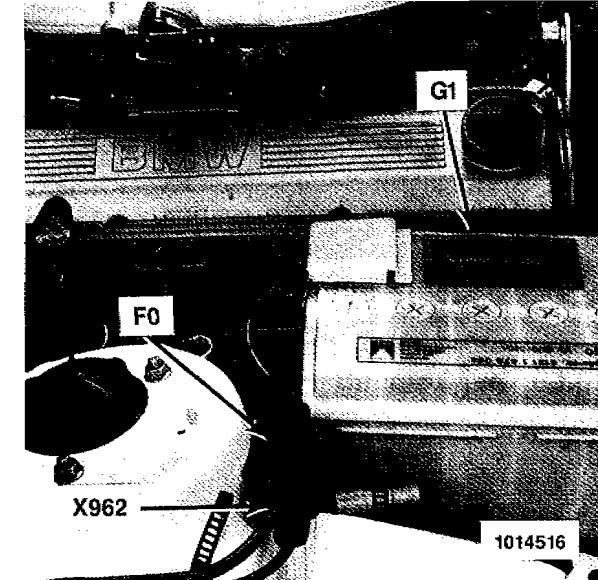
**Figure 1- RH Front Of Engine Compartment (M30 Engine Shown; M20 Engine Similar)**

M4 Washer Pump  
S64 Washer Fluid Level Switch  
X110 Connector (2 pins) BL



**Figure 2- RH Front Of Engine Compartment (Washer Fluid Reservoir Removed)**

B7 Low Pressure Switch  
B8 High Pressure Switch  
B9 Intermediate Pressure Switch  
X126 Connector (2 pins) WS  
X127 Conector (2 pins) SW  
X166 Ground  
X179 Ground



**Figure 3- RH Front Of Engine Compartment (M20 Engine)**

F0 Fusible Link 80A  
G1 Battery  
X962 B+ Junction Post

## COMPONENT LOCATION VIEWS

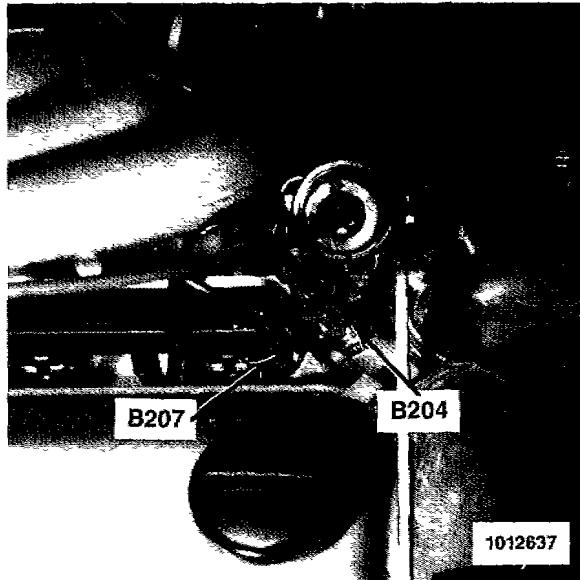


Figure 1- Top Front Of Engine (M20 Engine)

B204 Coolant Temperature Sensor  
B207 Coolant Temperature Sender

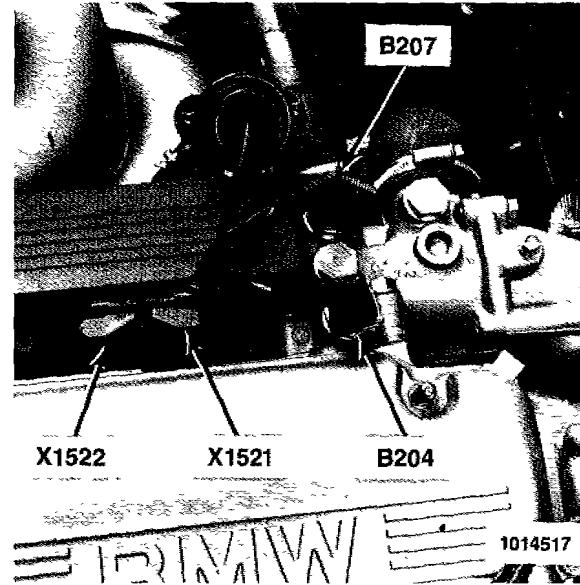


Figure 2- Top Front Of Engine (M30 Engine)

B204 Coolant Temperature Sensor  
B207 Coolant Temperature Sender  
X1521 Connector (3 pins) SW  
X1522 Connector (3 pins) SW

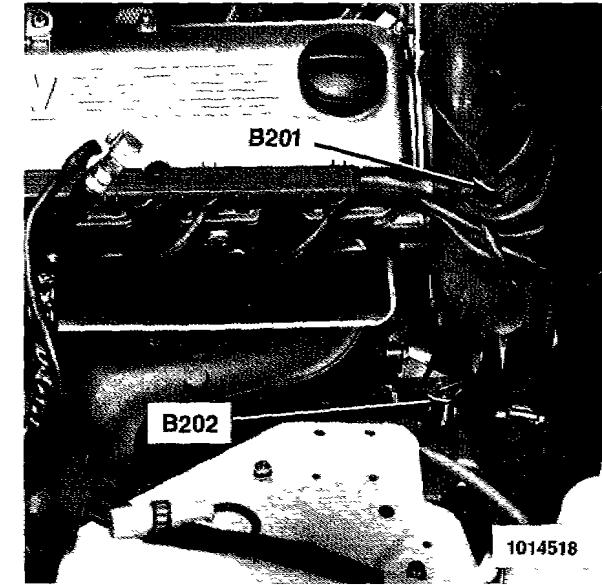


Figure 3- RH Front Of Engine (M20 Engine Shown, M30 Engine Similar)

B201 Cylinder Identification Sensor  
B202 Engine Speed/Reference Point Sensor

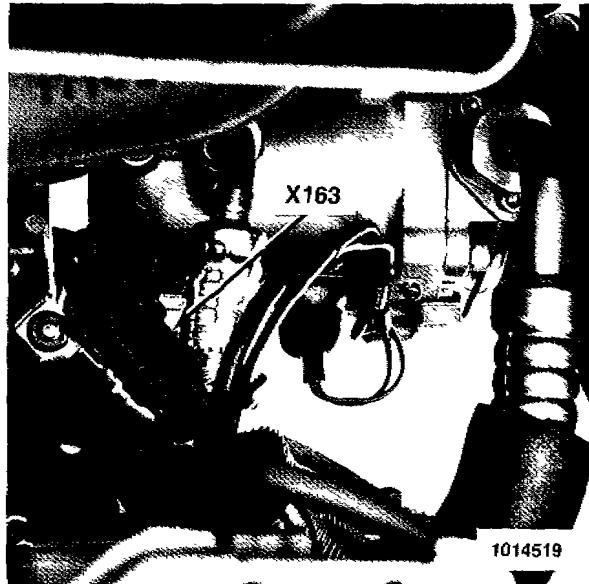


Figure 1- RH Front Of Engine (M20 Engine Shown, M30 Engine Similar)

X163 Connector (3 pins) SW

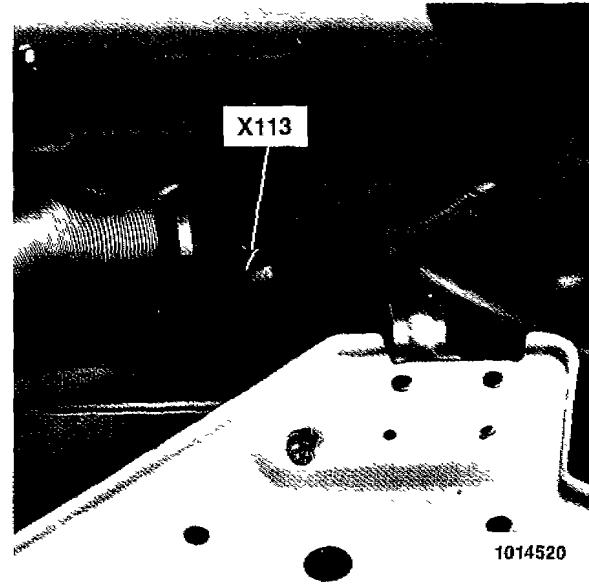


Figure 2- Lower RH Side Of Engine Compartment (M20 Engine Shown; M30 Engine Similar)

X113 Connector (2 pins) WS

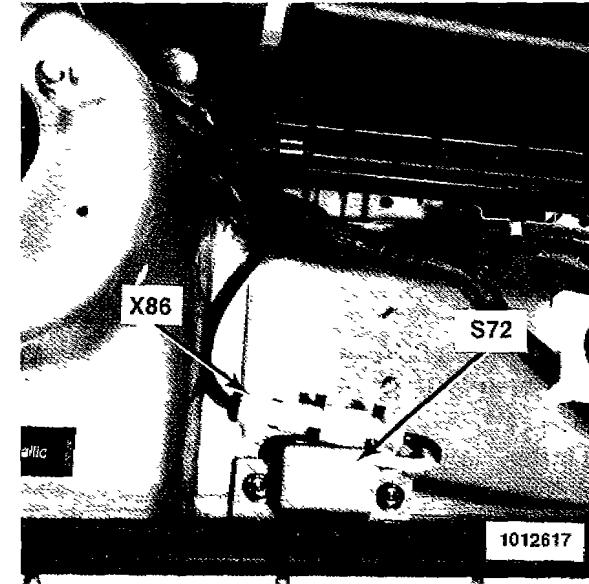


Figure 3- RH Side Of Engine Compartment (M30 Engine Shown, M20 Engine Similar)

S72 Right Front Crash Sensor  
X86 Connector (3 pins) OR

## COMPONENT LOCATION VIEWS

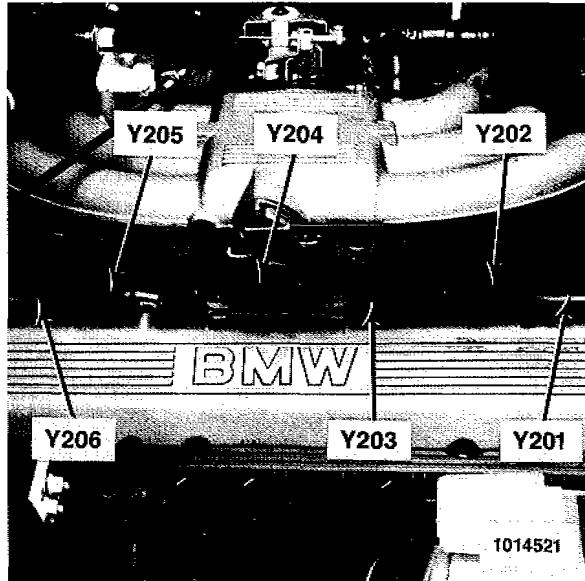


Figure 1- Top Of Engine (M20 Engine Shown; M30 Engine Similar)

Y201 Fuel Injector 1  
Y202 Fuel Injector 2  
Y203 Fuel Injector 3  
Y204 Fuel Injector 4  
Y205 Fuel Injector 5  
Y206 Fuel Injector 6

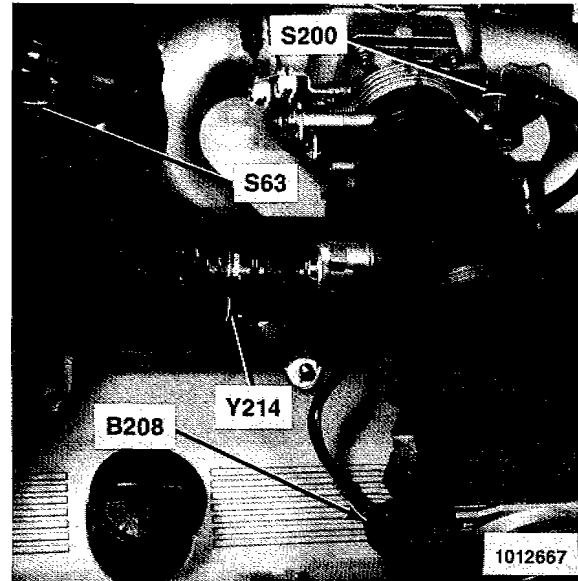


Figure 2- Top Rear Of Engine (M30 Engine)

B208 Air Flow Meter  
S63 Coolant Level Switch  
S200 Throttle Switch  
Y214 Idle Speed Actuator

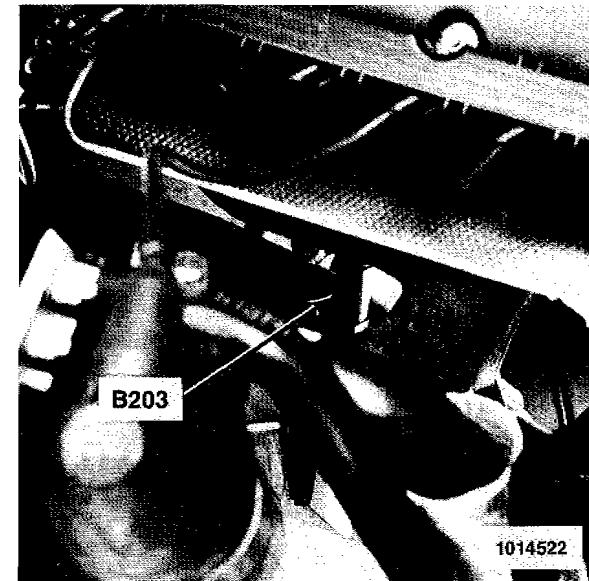


Figure 3- Lower RH Rear Of Engine (M20 Engine Shown; M30 Engine Similar)

B203 Oxygen Sensor

## COMPONENT LOCATION VIEWS

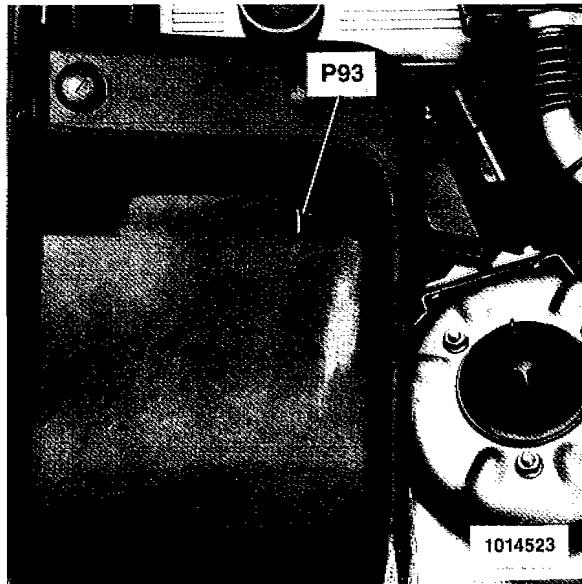


Figure 1- RH Rear Of Engine Compartment

P93 E-Box

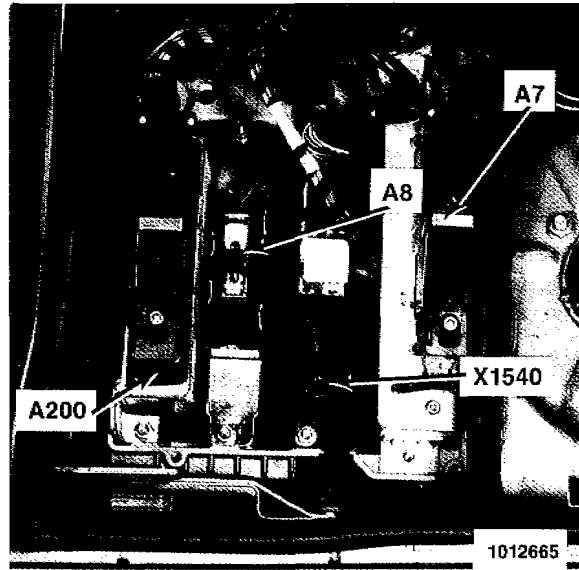


Figure 2- RH Rear Of Engine Compartment

A7 ABS Electronic Control Unit  
A8 Cruise Control Module (Tempomat)  
A200 Motronic Control Unit (DME)  
X1540 B+ Junction Post for E-Box

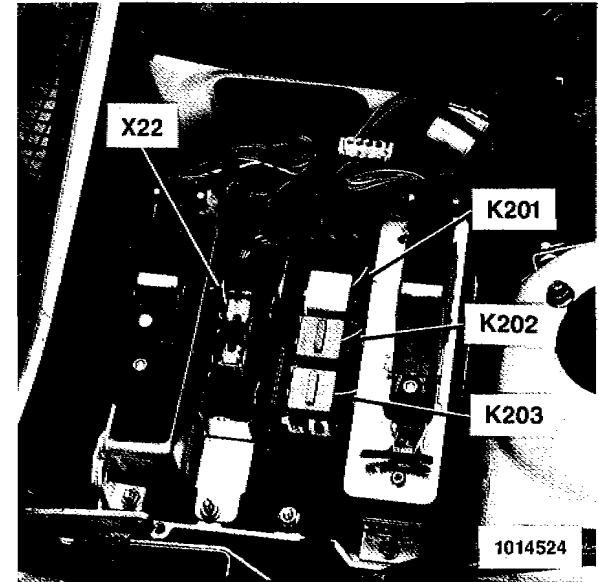


Figure 3- RH Rear Of Engine Compartment (M30 Engine)

K201 Fuel Pump Relay  
K202 Main Relay  
K203 Oxygen Sensor Relay  
X22 Connector (26 pins) BL

## COMPONENT LOCATION VIEWS

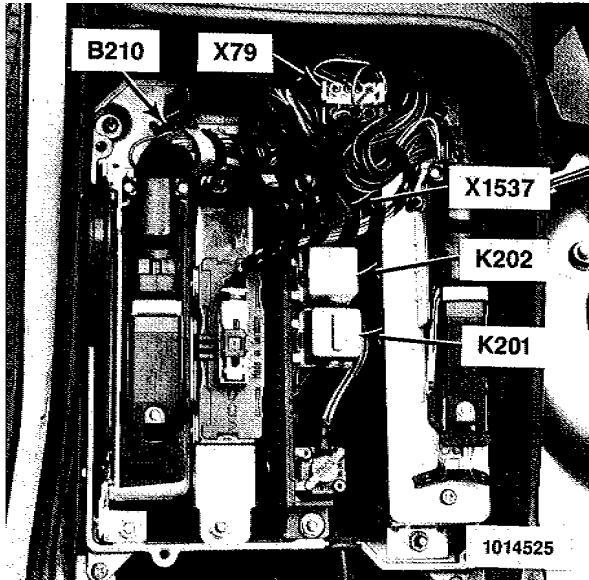


Figure 1- RH Rear Of Engine Compartment (M20 Engine)

B210 Temperature Switch  
K201 Fuel Pump Relay  
K202 Main Relay  
X79 Connector (4 pins) WS  
X1537 Connector (8 pins) SW

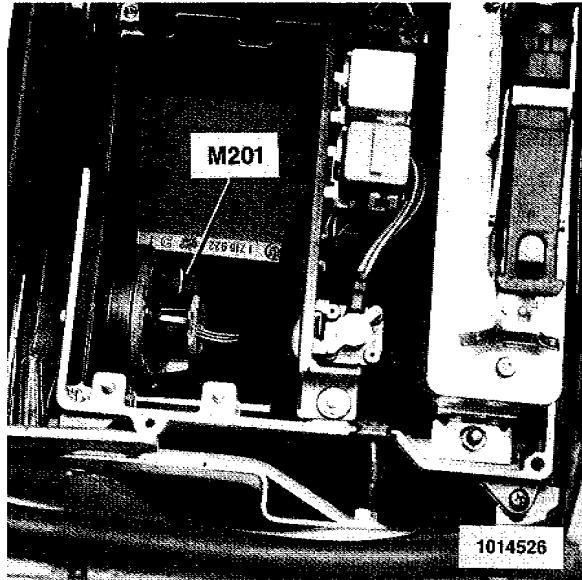


Figure 2- RH Rear Of Engine Compartment (M30 Engine Shown; M20 Engine Similar) Modules Removed

M201 E-Box Fan

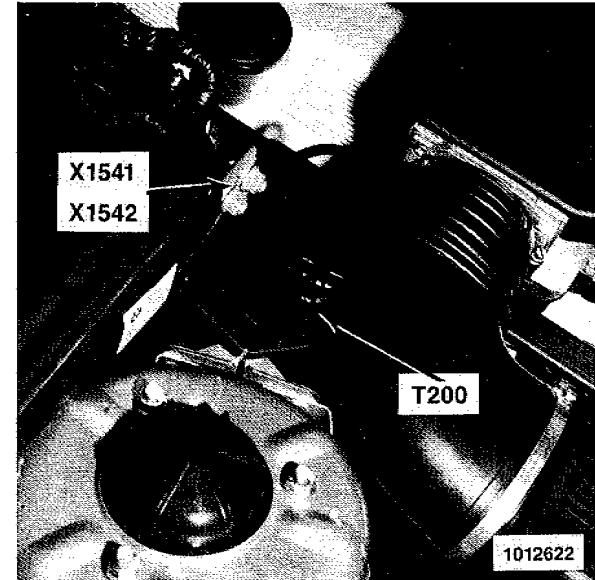


Figure 3- RH Rear Of Engine Compartment (M30 Engine Shown; M20 Engine Similar)

T200 Ignition Coil  
X1541 Ground  
X1542 Ground



Figure 1- RH Rear Of Engine Compartment (M20 Engine)

X1523 Connector (4 pins) SW

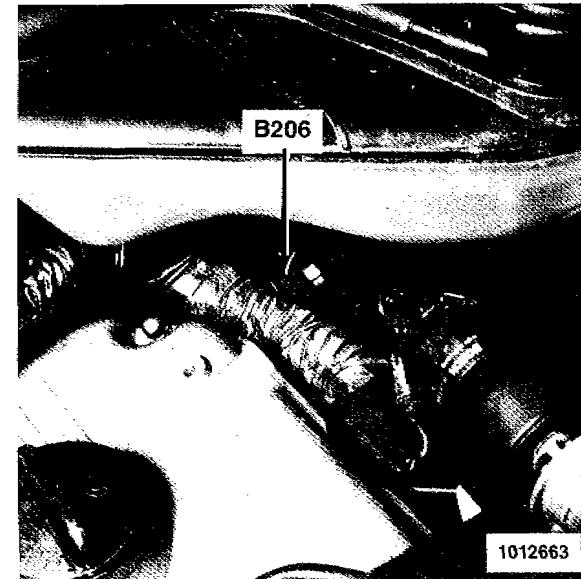


Figure 2- Rear Of Engine (M30 Engine)

B206 Oil Pressure Switch

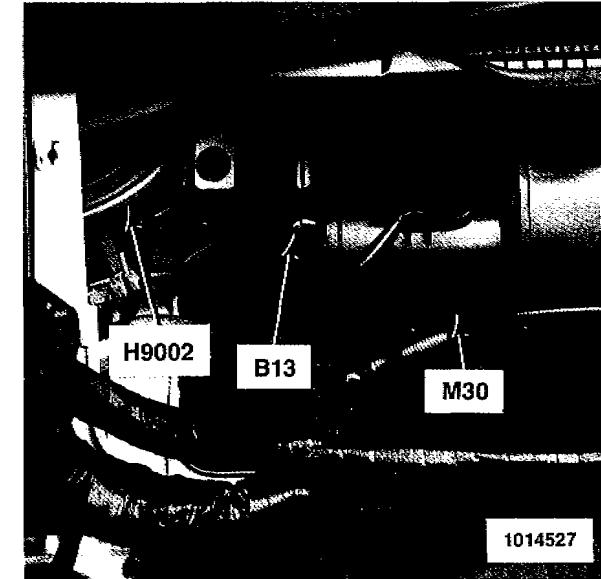


Figure 3- Behind Center Of Cowl Panel

B13 Outside Temperature Sensor  
H9002 On Board Computer Antitheft Horn  
M30 Blower Motor

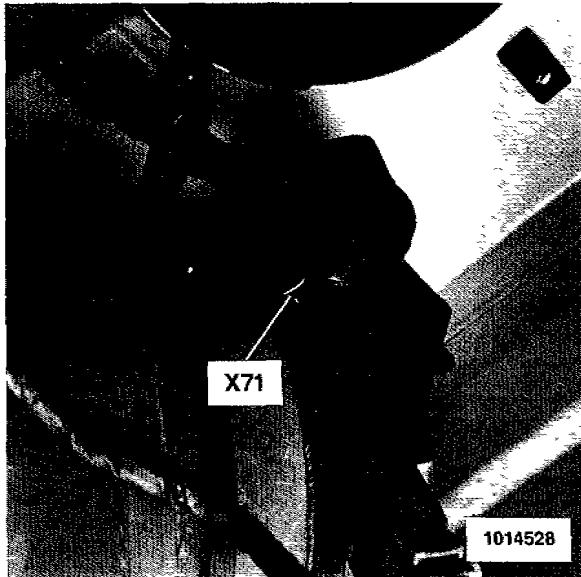


Figure 1- Under LH Side Of Front Bumper

X71 Connector (8 pins) SW

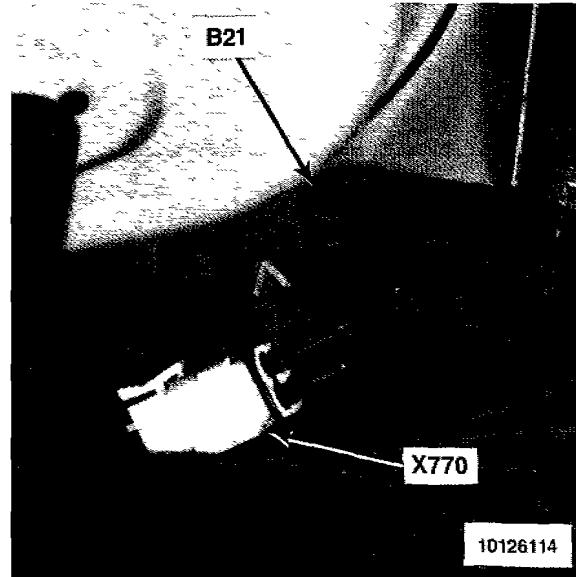


Figure 2- Under LH Side Of Front Bumper

B21 On-Board Computer Temperature Sensor

X770 Connector (2 pins) WS

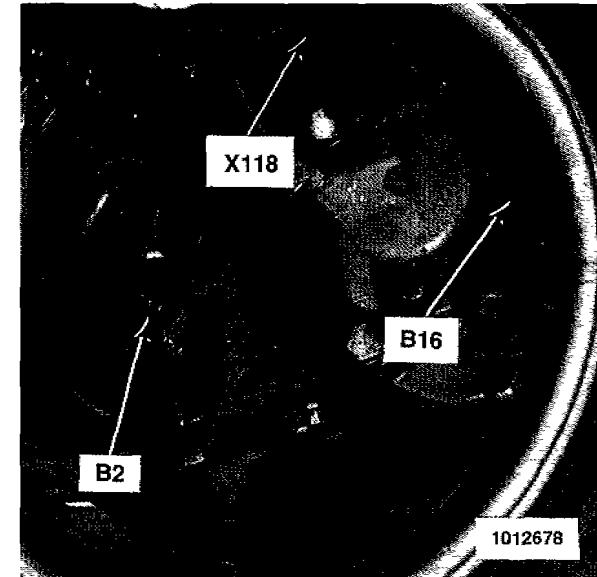


Figure 3- Behind LH Front Wheel

B2 Left Front Speed Sensor

B16 Left Front Brake Pad Sensor

X118 Connector (2 pins) SW

## COMPONENT LOCATION VIEWS

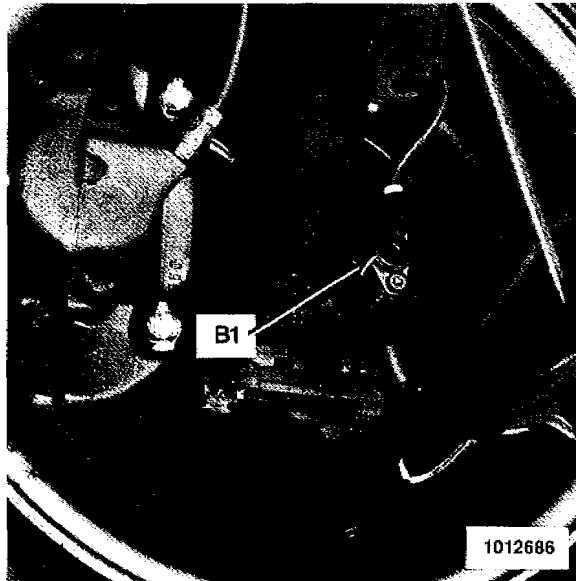


Figure 1- Behind RH Front Wheel

B1 Right Front Speed Sensor

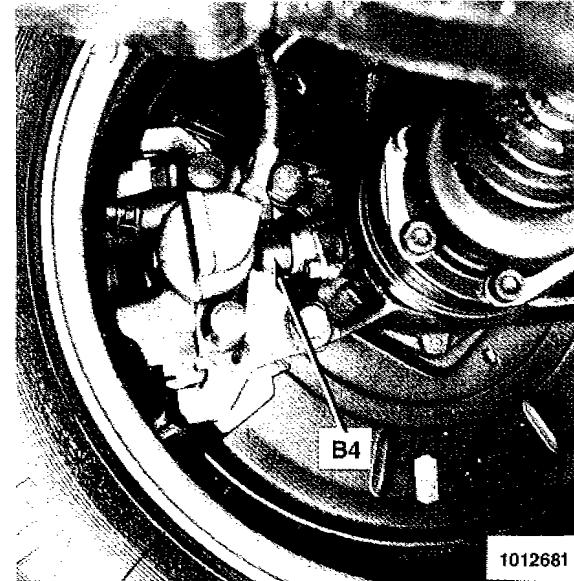


Figure 2- Behind LH Rear Wheel

B4 Left Rear Speed Sensor

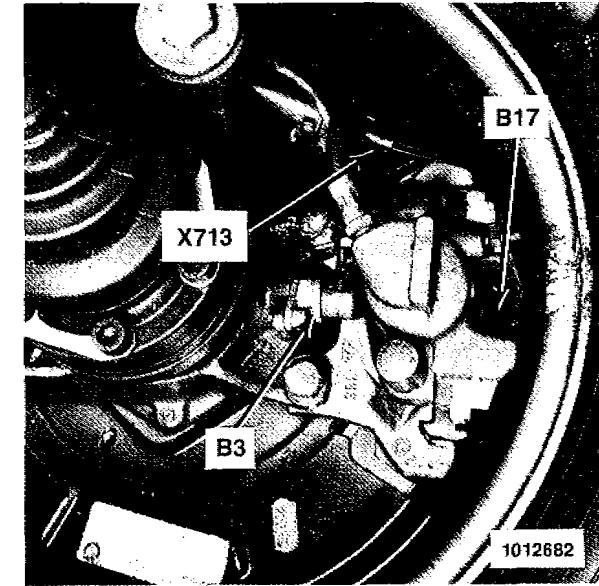


Figure 3- Behind RH Rear Wheel

B3 Right Rear Speed Sensor

B17 Right Rear Brake Pad Sensor

X713 Connector (2 pins) SW

## COMPONENT LOCATION VIEWS

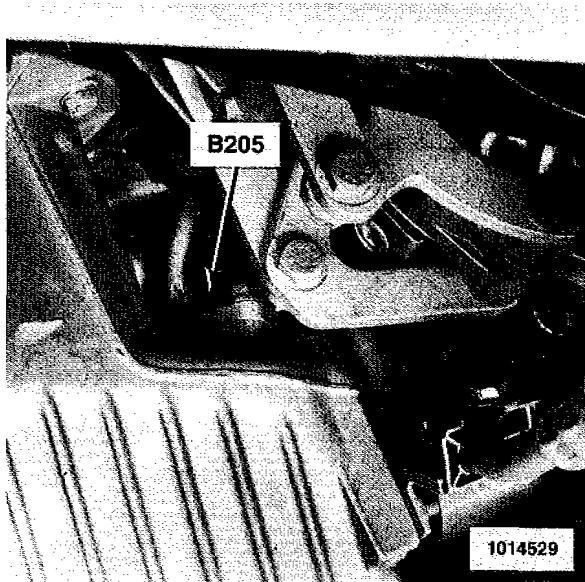


Figure 1- Lower LH Front Of Engine (M20 Engine)

B205 Oil Level Sensor

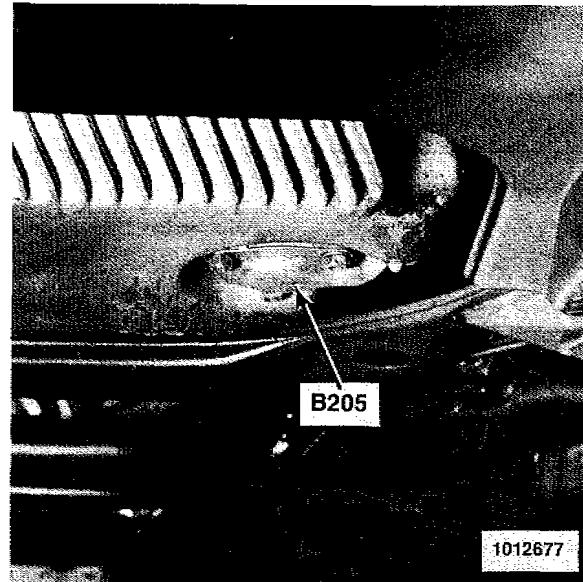


Figure 2- Lower Front Of Engine (M30 Engine)

B205 Oil Level Sensor

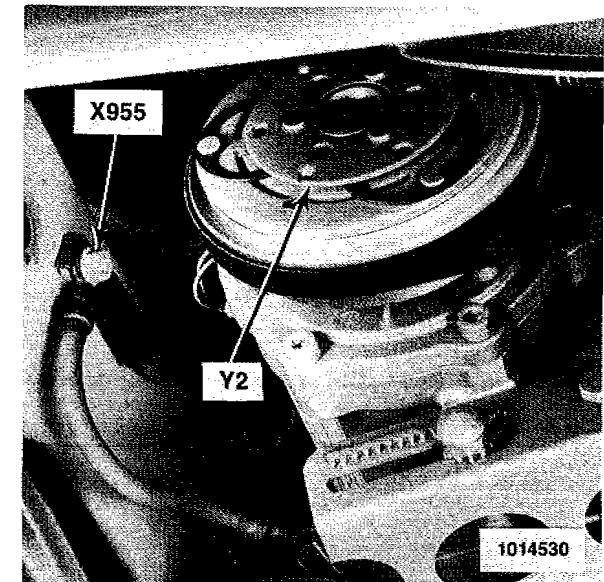


Figure 3- Lower RH Front Of Engine (M20 Engine Shown; M30 Engine Similar)

Y2 Compressor Clutch  
X955 Ground

## COMPONENT LOCATION VIEWS

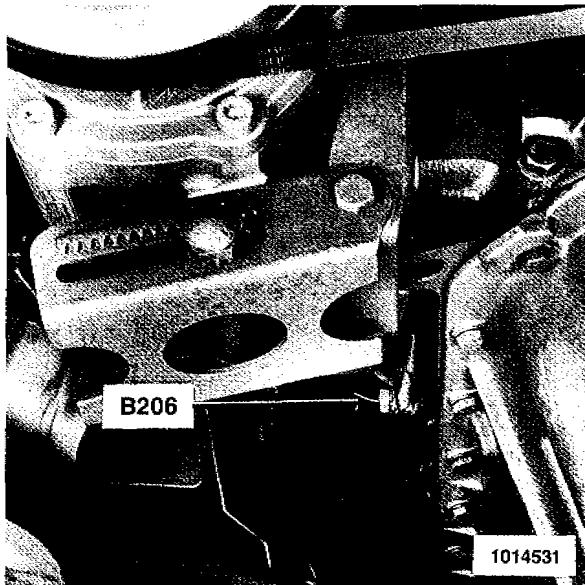


Figure 1- Lower RH Side Of Engine (M20 Engine)

B206 Oil Pressure Switch

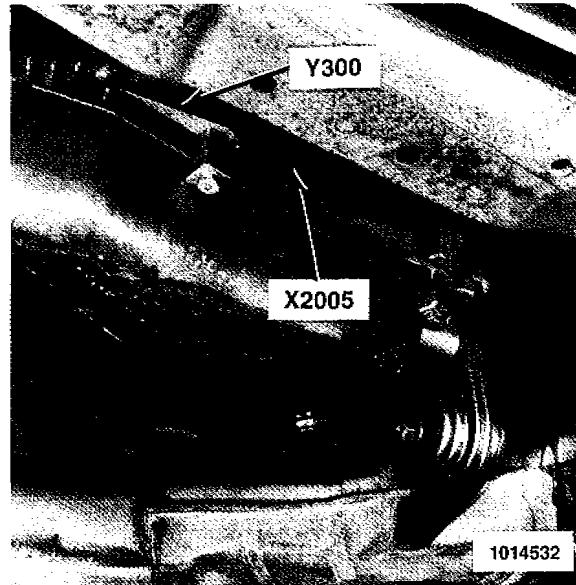


Figure 2- LH Side Of Transmission

Y300 Transmission  
X2005 Connector (8 pins) SW

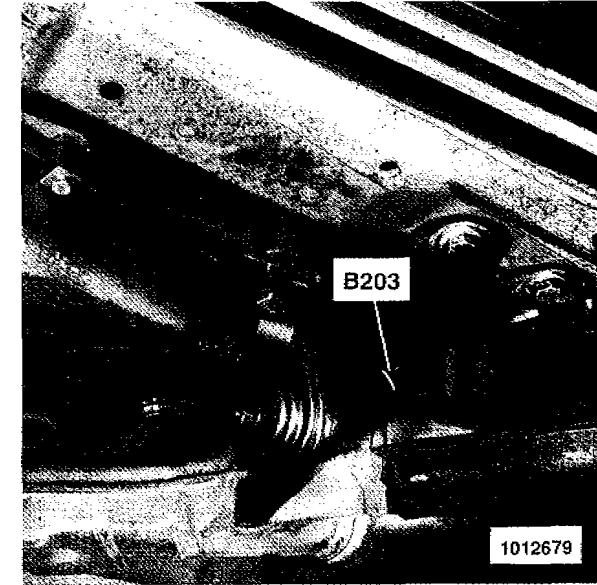


Figure 3- LH Side Of Transmission (M30 Engine)

B203 Oxygen Sensor

## COMPONENT LOCATION VIEWS

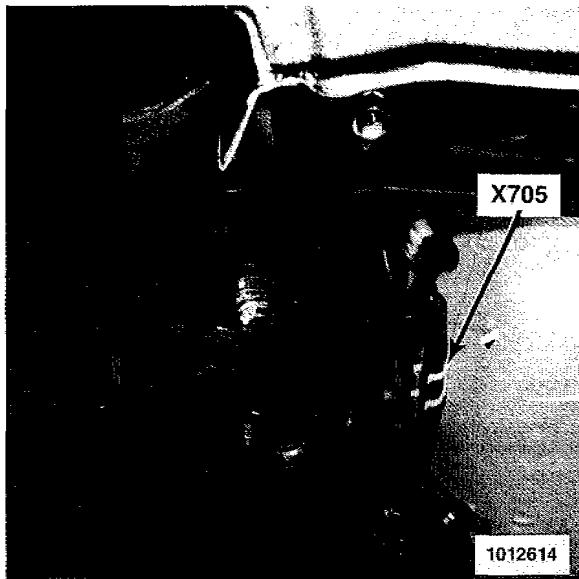


Figure 1- Front Of RH Wheel Well

**X705** Connector (2 pins) SW

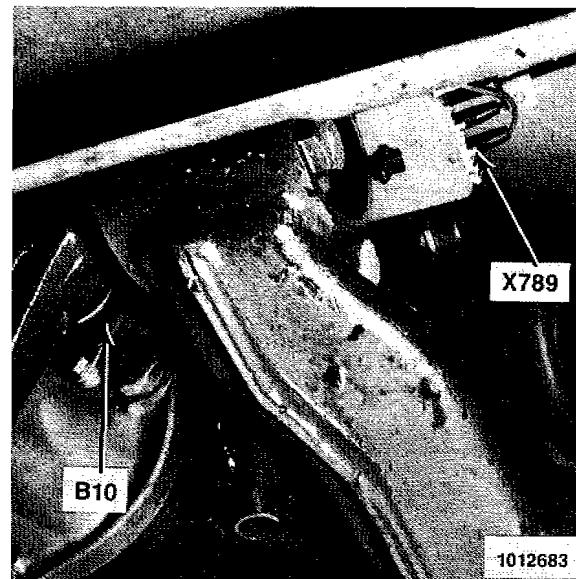


Figure 2- Rear Of Car, On Differential

**B10** Vehicle Speed Sensor

**X789** Connector (2 pins) GE

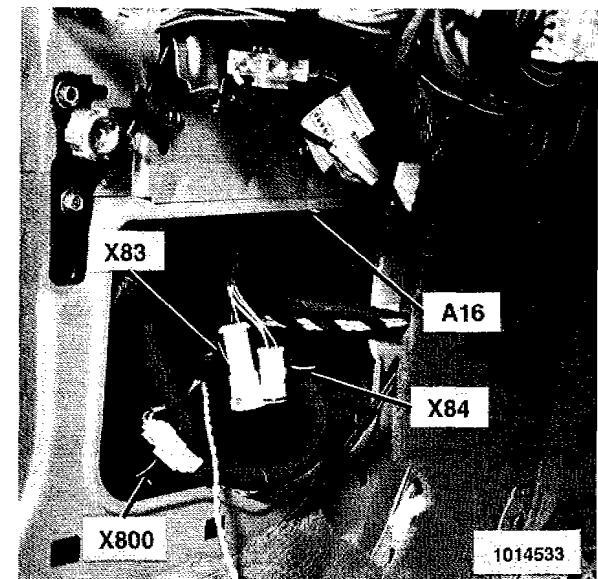


Figure 3- Inside LH Kick Panel

**A16** Compressor Control Unit

**X83** Connector (3 pins) GE

**X84** Connector (3 pins) GE

**X800** Connector (2 pins) WS

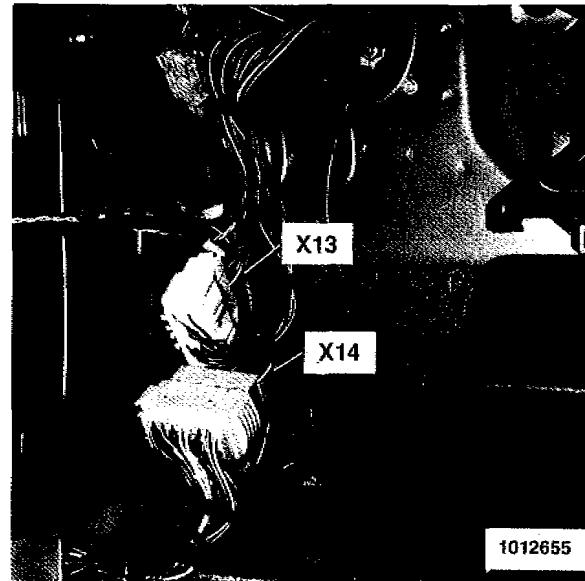


Figure 1- Below LH Side Of Dash, Below Driver's Footrest

X13 Connector (21 pins) WS  
X14 Connector (30 pins) GE

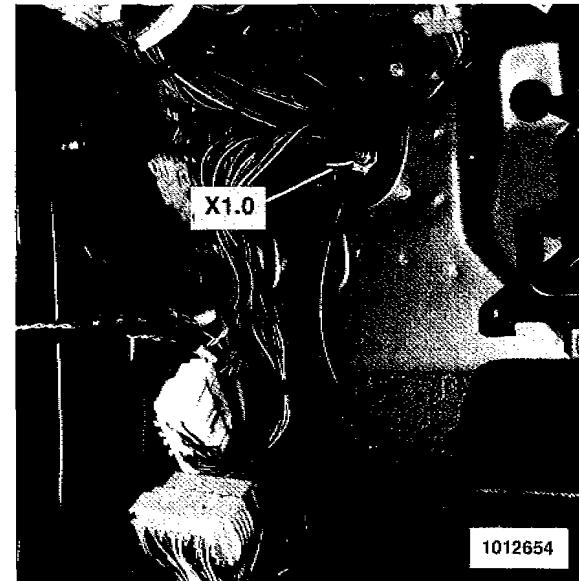


Figure 2- Behind LH Side Of Dash

X1.0 Junction Post For Front Power Distribution Box

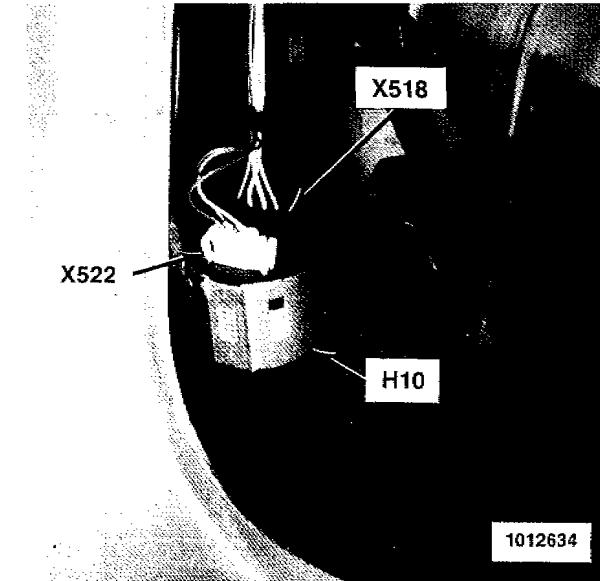
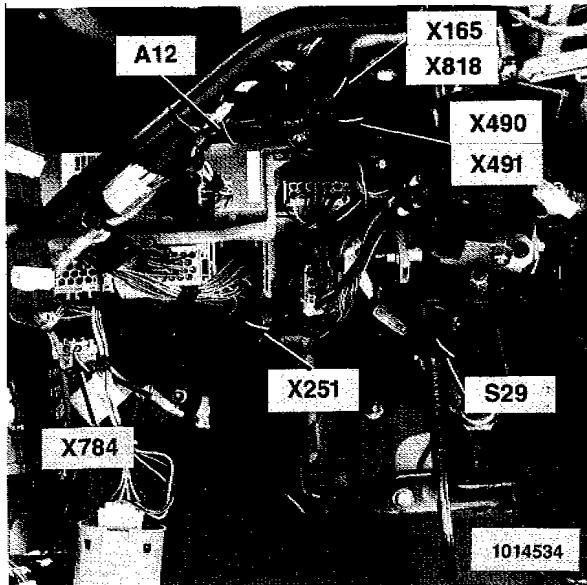


Figure 3- Behind LH Side Of Dash

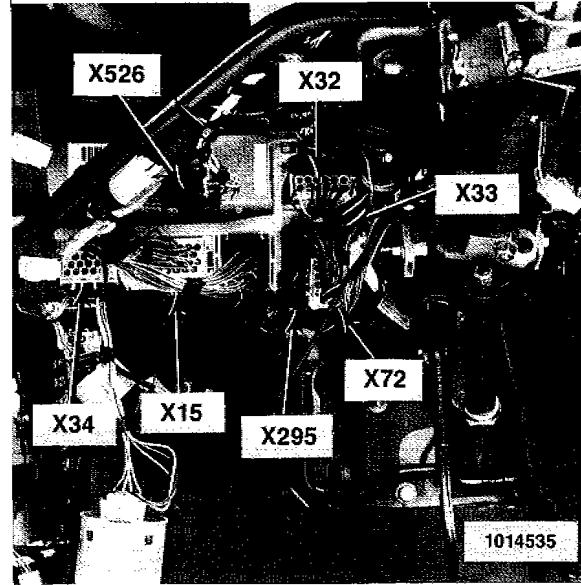
H10 Chime Module  
X518 Connector (4 pins) SW  
X522 Connector (3 pins) WS

## COMPONENT LOCATION VIEWS



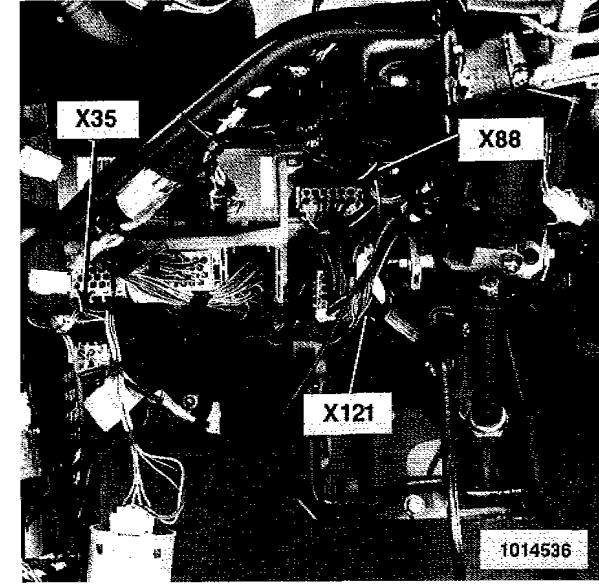
**Figure 1- Behind LH Side Of Dash, LH Side Of Steering Column**

A12 Diagnostic Module (SRS)  
S29 Brake Light Switch  
X251 Connector (30 pins) SW  
X784 Connector (2 pins) OR  
X165 Ground  
X490 Ground  
X491 Ground  
X818 Ground



**Figure 2- Behind LH Side Of Dash, LH Side Of Steering Column**

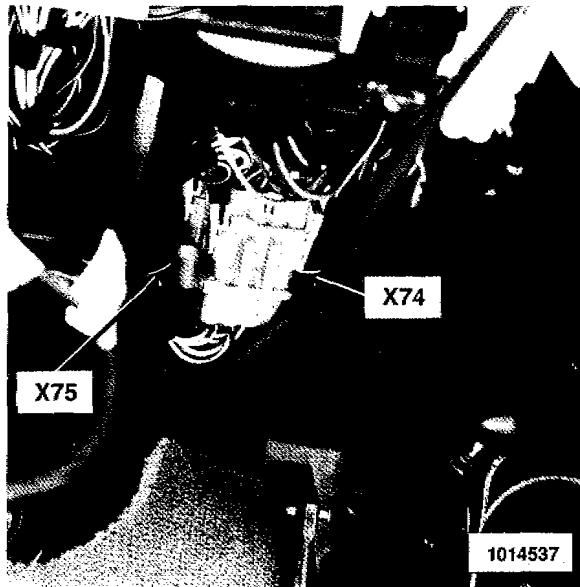
X15 Connector (30 pins) WS  
X32 Connector (12 pins) WS  
X33 Connector (12 pins) SW  
X34 Connector (21 pins) WS  
X72 Connector (8 pins) WS  
X295 Connector (8 pins) SW  
X526 Connector (8 pins) SW



**Figure 3- Behind LH Side Of Dash, LH Side Of Steering Column**

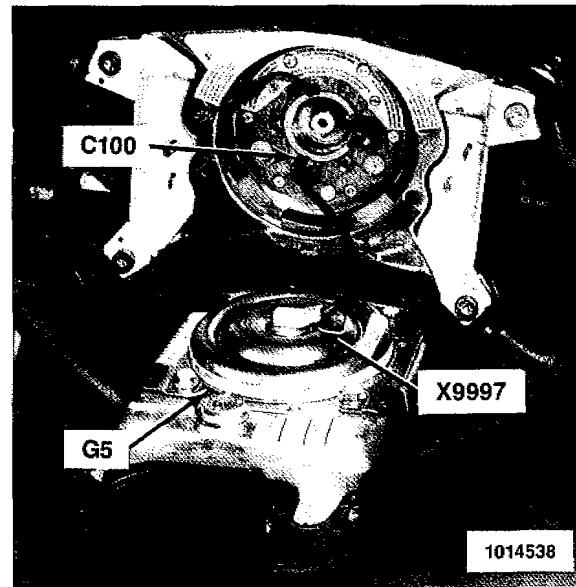
X35 Connector (21 pins) SW  
X88 Connector (3 pins) SW  
X121 Connector (2 pins) WS

## COMPONENT LOCATION VIEWS



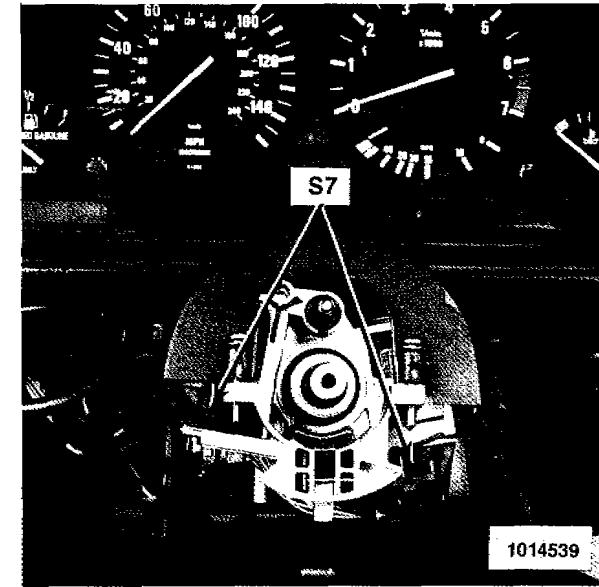
**Figure 1- Behind LH Side Of Dash, LH Side Of Steering Column**

X74 Connector (8 pins) OR  
X75 Connector (6 pins) OR



**Figure 2- Inside Steering Wheel**

C100 Contact Ring  
G5 Driver's Air Bag Generator  
X9997 Connector (2 pins) OR



**Figure 3- Top Of Steering Column (Steering Wheel Removed)**

S7 Combination Switch

## COMPONENT LOCATION VIEWS

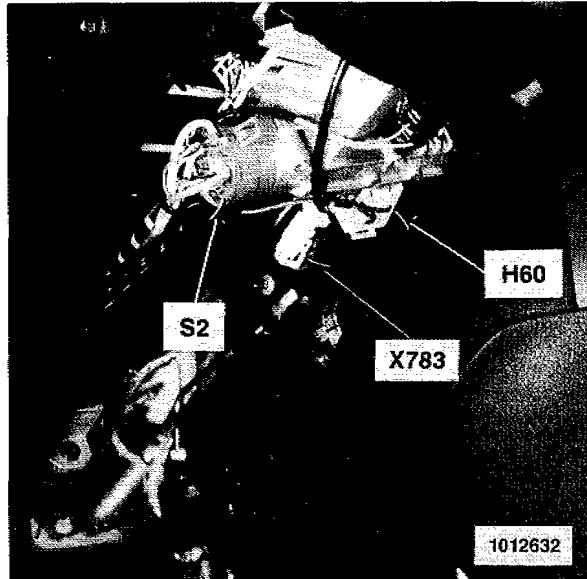


Figure 1- Underside Of Steering Column

H60 Audible Turn-Signal Relay  
S2 Ignition Switch  
X783 Connector (2 pins) OR

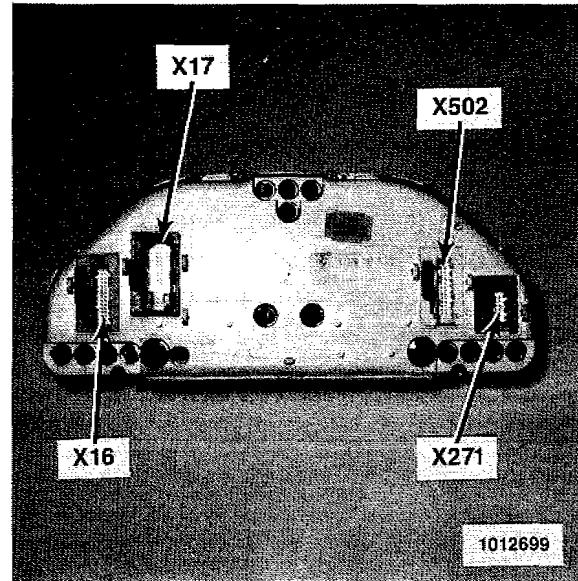


Figure 2- Rear Of Instrument Cluster

X16 Connector (26 pins) GE  
X17 Connector (24 pins) BR  
X271 Conenctor (12 pins) GR  
X502 Connector (26 pins) WS

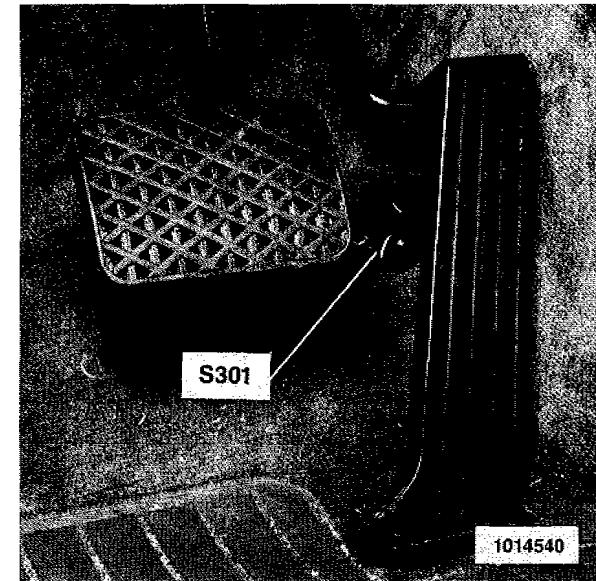


Figure 3- Below LH Side Of Dash

S301 Transmission Kickdown Switch

## COMPONENT LOCATION VIEWS

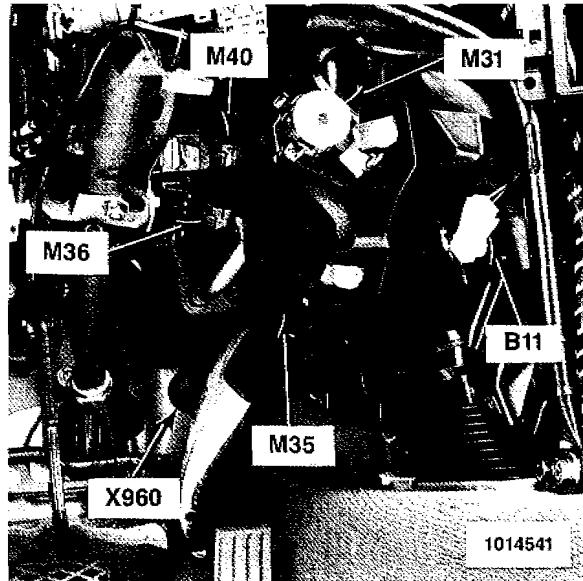


Figure 1- Behind Center Of Dash, LH Side Of IHKR Plenum

- B11 Left Heat Exchanger Temperature Sensor
- M31 Left Footwell Flap Motor
- M35 Defroster Flap Motor
- M36 Fresh Air Flap Motor
- M40 Air Circulation Flap Motor
- X960 B+ Junction Post

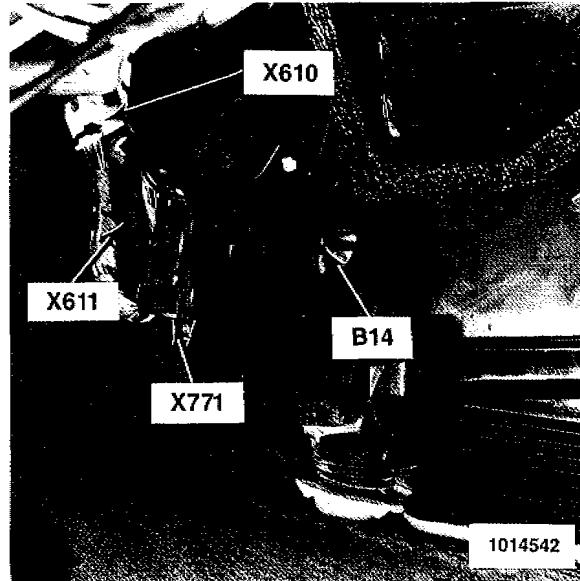


Figure 2- Behind Center Of Dash, LH Side Of IHKA Plenum

- B14 Evaporator Temperature Sensor
- X610 Connector (26 pins) WS
- X611 Connector (26 pins) GN
- X771 Connector (2 pins) SW

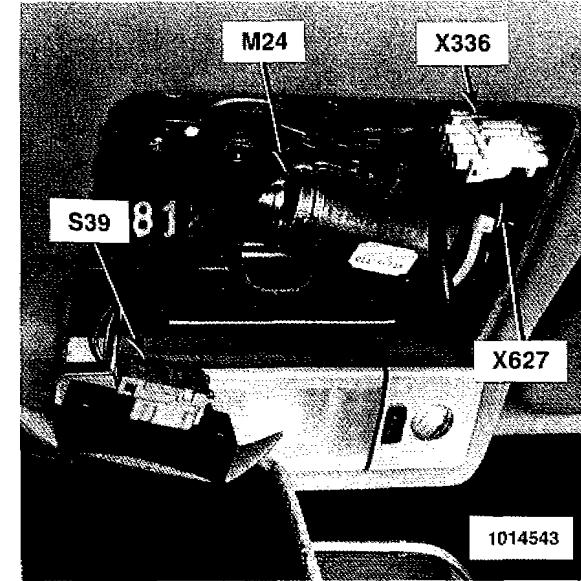


Figure 3- Center Of Windshield Header

- M24 Sunroof Motor
- S39 Sunroof Position Switch
- X336 Connector (4 pins) WS
- X627 Connector (8 pins) SW

## COMPONENT LOCATION VIEWS

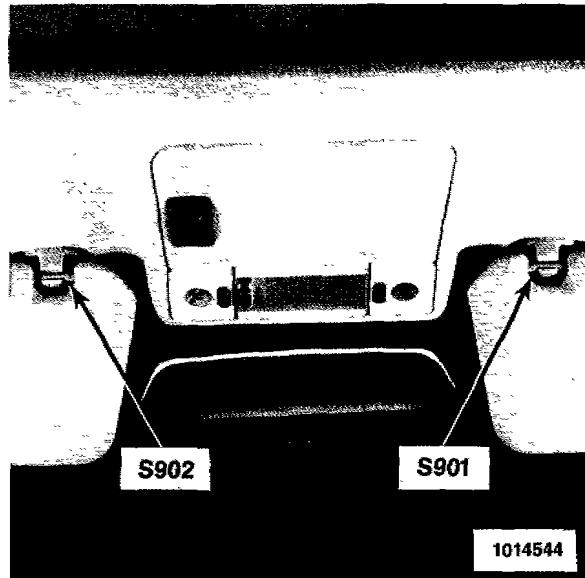


Figure 1- Center Of Windshield Header

S901 Passenger's Visor Switch  
S902 Driver's Visor Switch

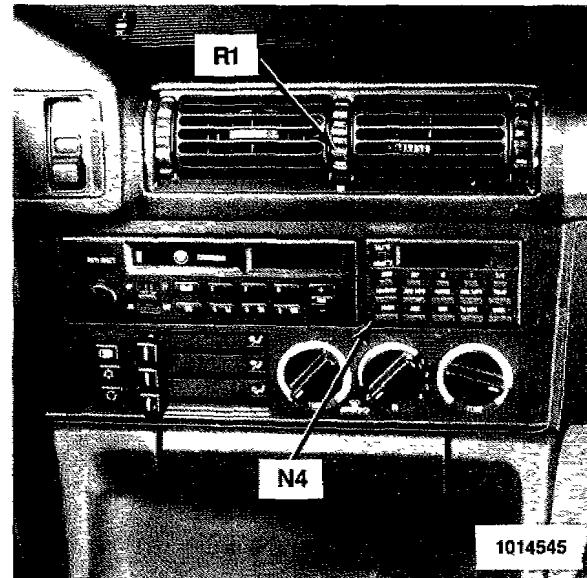


Figure 2- Center Of Dash

N4 On-Board Computer Module  
R1 Temperature Distribution  
Potentiometer

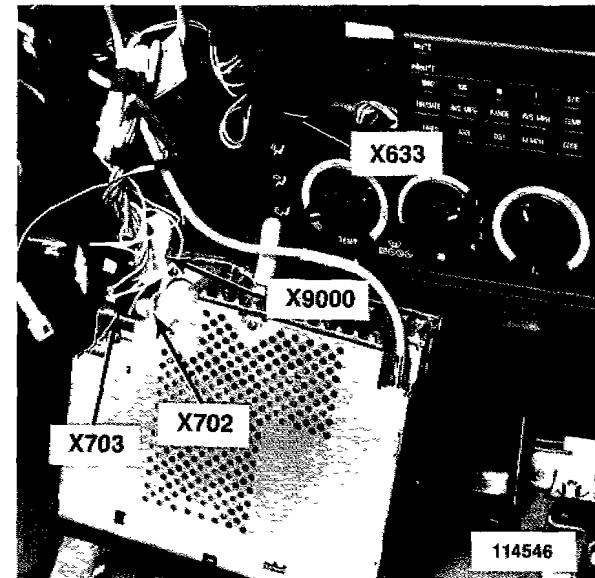


Figure 3- Behind Center Of Dash

X633 Connector (8 pins) SW  
X702 Connector (2 pins) WS  
X703 Connector (2 pins) SW  
X9000 Connector (2 pins) SW

## COMPONENT LOCATION VIEWS

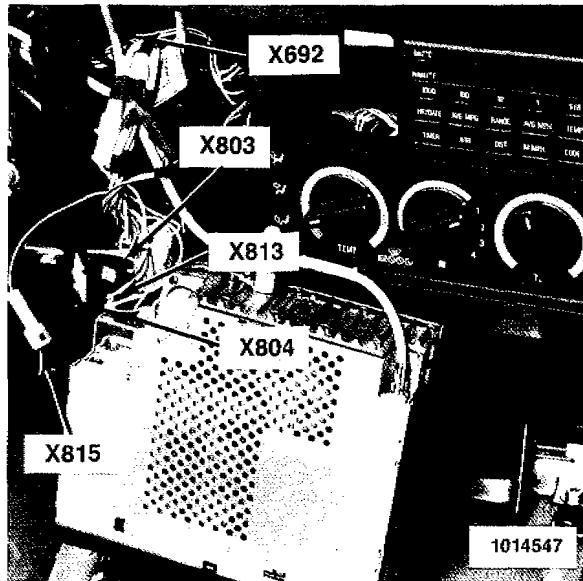


Figure 1- Behind Center Of Dash

- X692 Connector (3 pins) SW
- X803 Connector (2 pins) SW
- X804 Connector (2 pins) WS
- X813 Connector (1 pin) SW
- X815 Connector (1 pin) WS

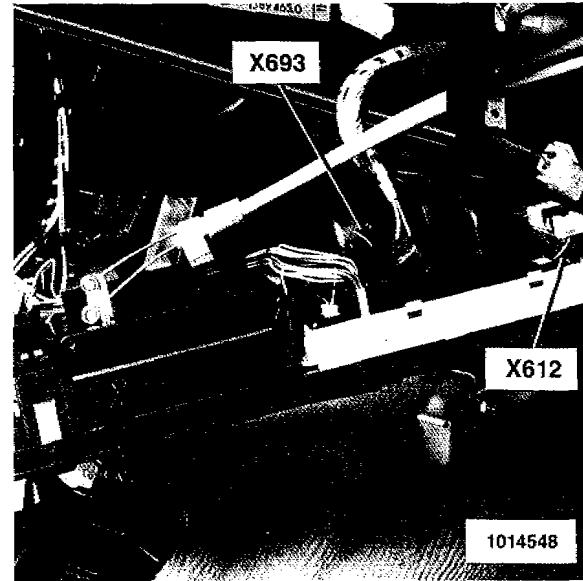


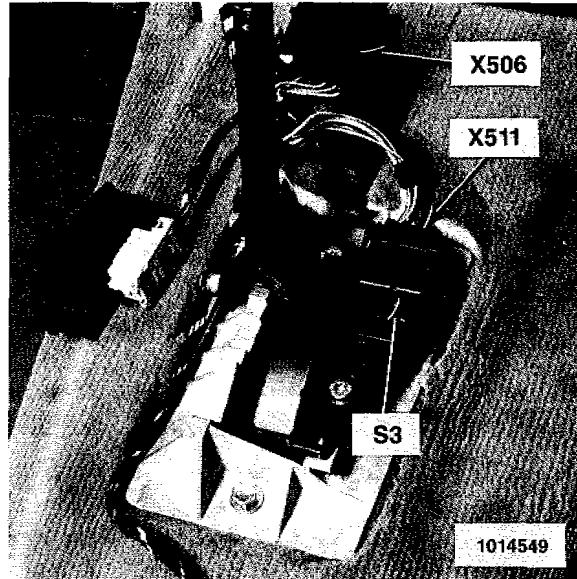
Figure 2- Behind Center Of Dash

- X612 Connector (26 pins) BL
- X693 Connector (3 pins) SW



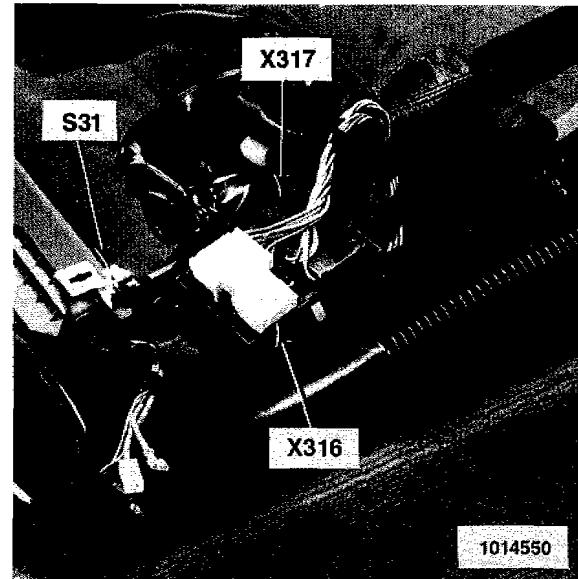
Figure 3- Below Center Console

- X546 Connector (2 pins) WS



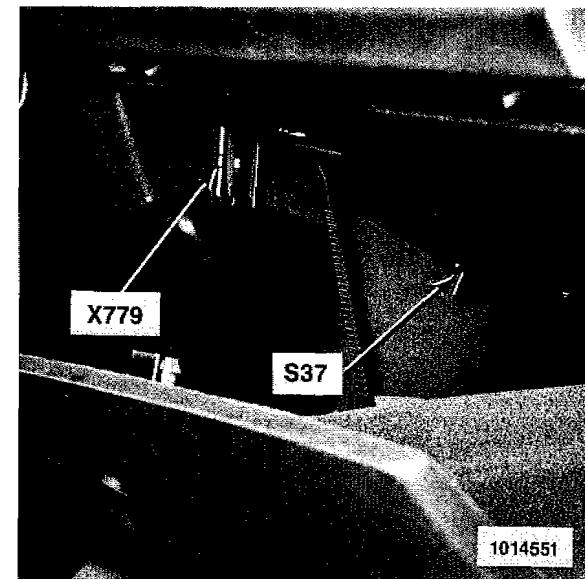
**Figure 1- Below Center Console (Console Removed)**

S3 Automatic Transmission Range Switch  
X506 Connector (12 pins) SW  
X511 Connector (8 pins) SW



**Figure 2- Below Center Console (Console Removed)**

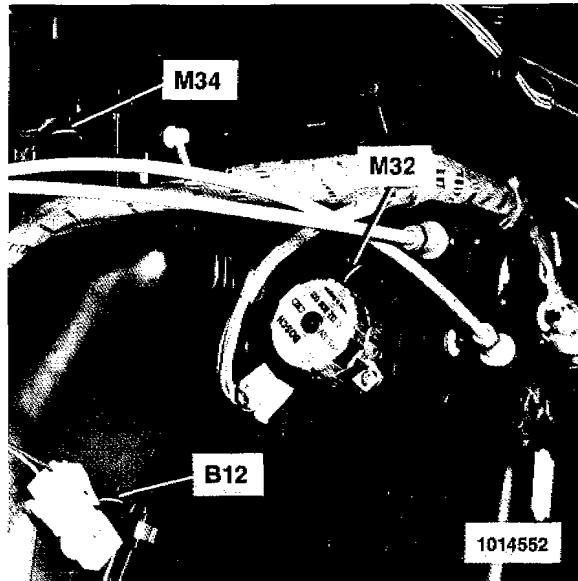
S31 Park Brake Switch  
X316 Connector (6 pins) WS  
X317 Connector (6 pins) SW



**Figure 3- In LH Side Of Glove Box**

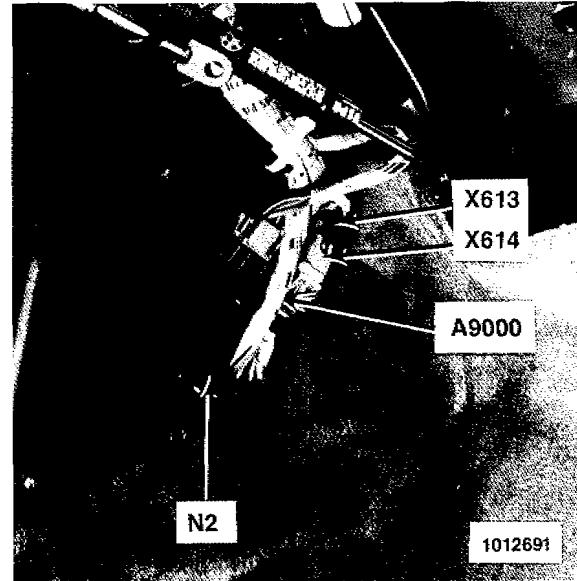
S37 Glove Box Light Switch  
X779 Charging Plug

## COMPONENT LOCATION VIEWS



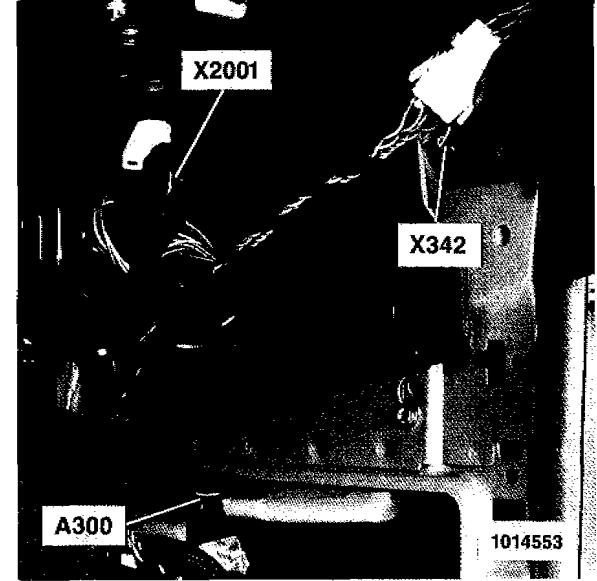
**Figure 1- Behind Center Of Dash, RH Side of IHKR Plenum**

- B12 Right Heat Exchanger Temperature Sensor
- M32 Right Footwell Flap Motor
- M34 Right Mixing Flap Motor



**Figure 2- Behind Center Of Dash LH Side Of IHKA Plenum**

- A9000 Integrated Climate Regulation Control Unit (IHKR)
- N2 Final Stage Unit
- X613 Connector (26 pins) BL
- X614 Connector (26 pins) GE



**Figure 3- Behind RH Side Of Dash, at Kick Panel**

- A300 Electronic Transmission Control Unit (AEGS)
- X342 Connector (4 pins) WS
- X2001 Connector (12 pins) SW

## COMPONENT LOCATION VIEWS

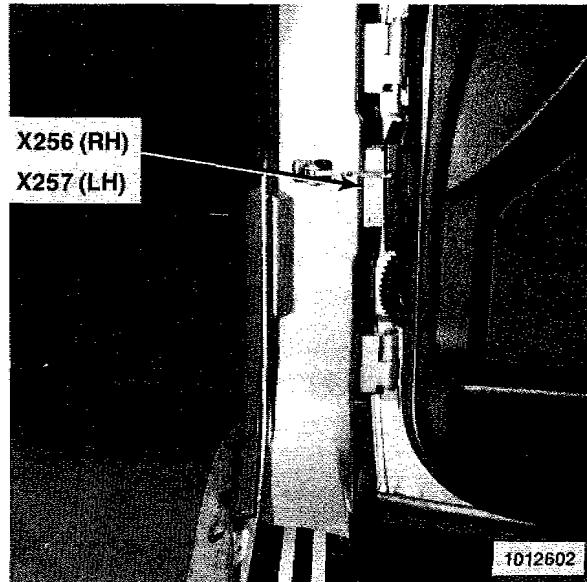


Figure 1- RH Front Door Jamb (LH Similar)

X256 Connector (RH) (26 pins) GR  
X257 Connector (LH) (26 pins) GR

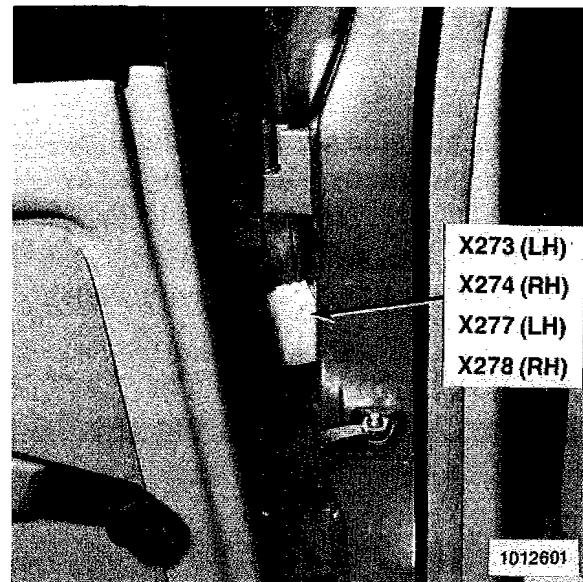


Figure 2- LH Rear Door Jamb (RH Similar)

X273 Connector (LH) (12 pins) GR  
X274 Connector (RH) (12 pins) GR  
X277 Connector (LH) (10 pins) BL  
X278 Connector (RH) (10 pins) BL

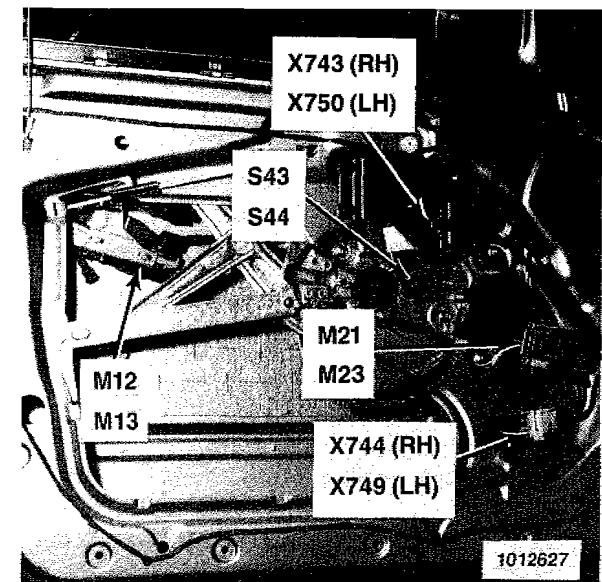


Figure 3- Behind Door Panel (Driver's Shown; Passenger's Similar)

M12 Driver's Door Lock Motor  
M13 Passenger's Door Lock Motor  
M21 Driver's Window Motor  
M23 Passenger's Window Motor  
S43 Driver's Window Limit Switch  
S44 Passenger's Window Limit Switch  
X743 Connector (2 pins) (RH) SW  
X744 Connector (2 pins) (RH) BL  
X749 Connector (2 pins) (LH) BL  
X750 Connector (2 pins) (LH) SW

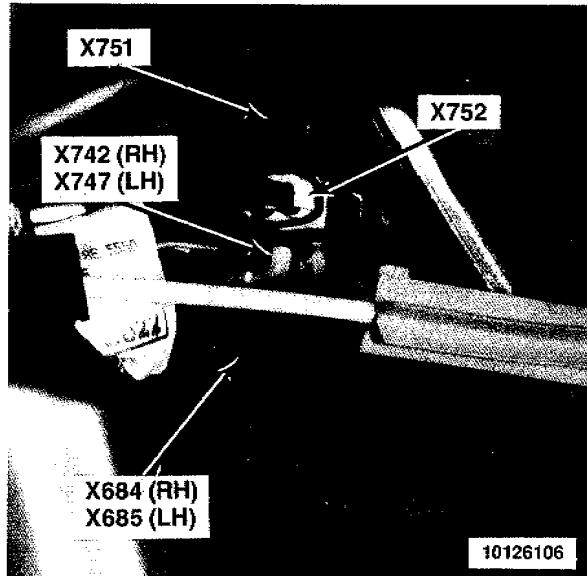


Figure 1- Driver's Door (Passenger's Similar)

X684 Connector (3 pins) (RH) SW  
X685 Connector (3 pins) (LH) SW  
X742 Connector (2 pins) (RH) GE  
X747 Connector (2 pins) (LH) GE  
X751 Connector (2 pins) BL  
X752 Connector (2 pins) WS

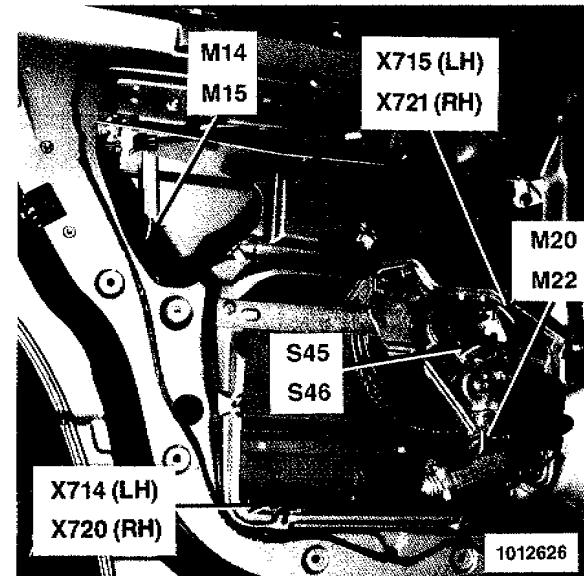


Figure 2- Behind LH Rear Door Panel (RH Rear Similar)

M14 Right Rear Door Lock Motor  
M15 Left Rear Door Lock Motor  
M20 Left Rear Window Motor  
M22 Right Rear Window Motor  
S45 Left Rear Window Limit Switch  
S46 Right Rear Window Limit Switch  
X714 Connector (2 pins) (LH) BL  
X715 Connector (2 pins) (LH) SW  
X720 Connector (2 pins) (RH) BL  
X721 Connector (2 pins) (RH) SW

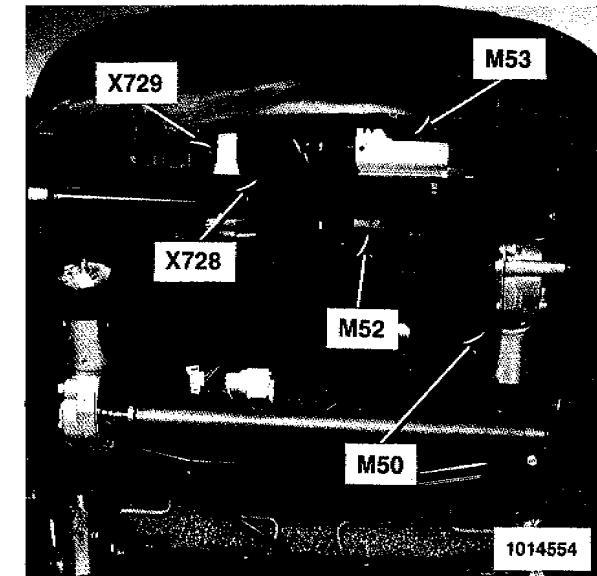


Figure 3- Under Driver's Seat

M50 Driver's Seat Cushion Tilt Motor  
M52 Driver's Seat Height Motor  
M53 Driver's Seatback Recliner Motor  
X728 Connector (2 pins) SW  
X729 Connector (2 pins) WS

## COMPONENT LOCATION VIEWS

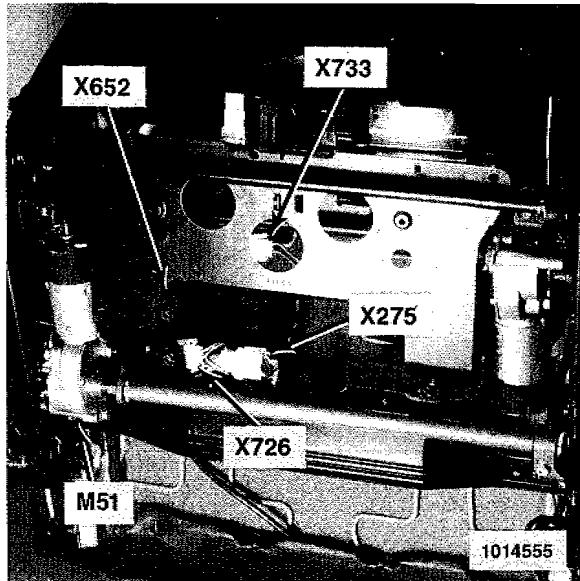


Figure 1- Under Driver's Seat

- M51 Driver's Seat Movement Motor
- X275 Connector (12 pins) WS
- X652 Connector (6 pins) BL
- X726 Connector (2 pins) WS
- X733 Connector (2 pins) WS

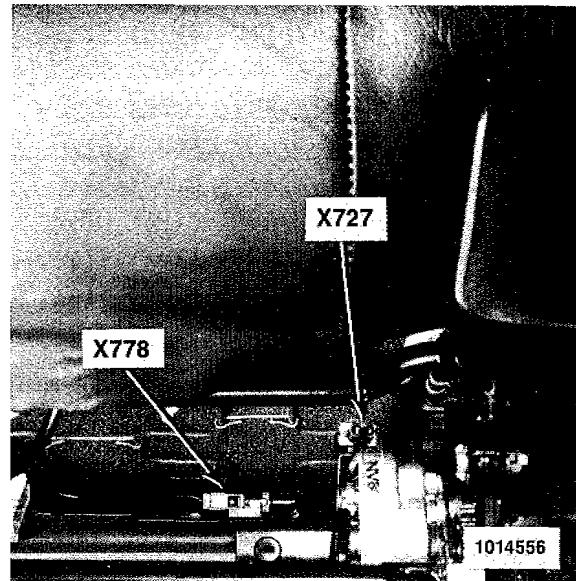


Figure 2- Under Driver's Seat

- X727 Connector (2 pins) SW
- X778 Connector (2 pins) SW

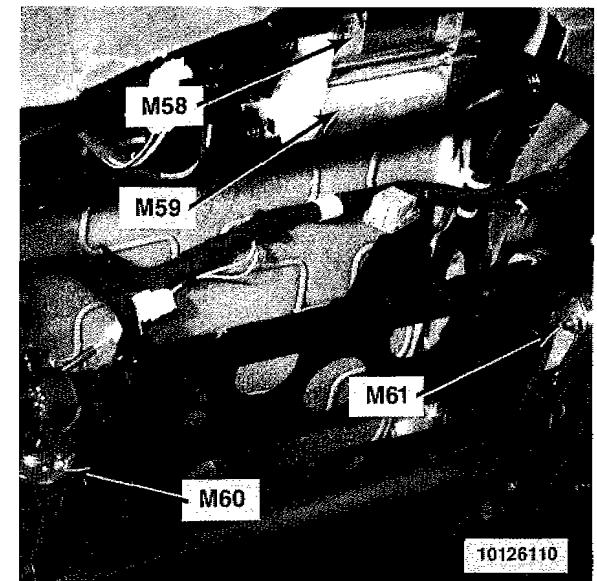


Figure 3- Under Passenger's Seat

- M58 Passenger's Seatback Recliner Motor
- M59 Passenger's Seat Height Motor
- M60 Passenger's Seat Movement Motor
- M61 Passenger's Seat Cushion Tilt Motor

## COMPONENT LOCATION VIEWS

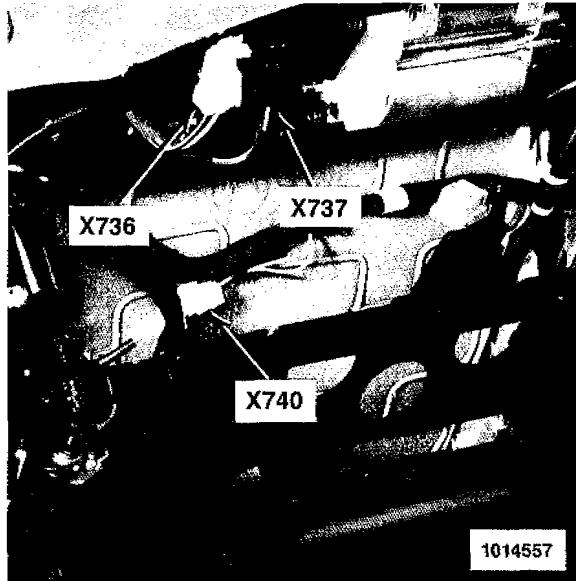


Figure 1- Under Passenger's Seat

X736 Connector (2 pins) WS  
X737 Connector (2 pins) SW  
X740 Connector (2 pins) WS

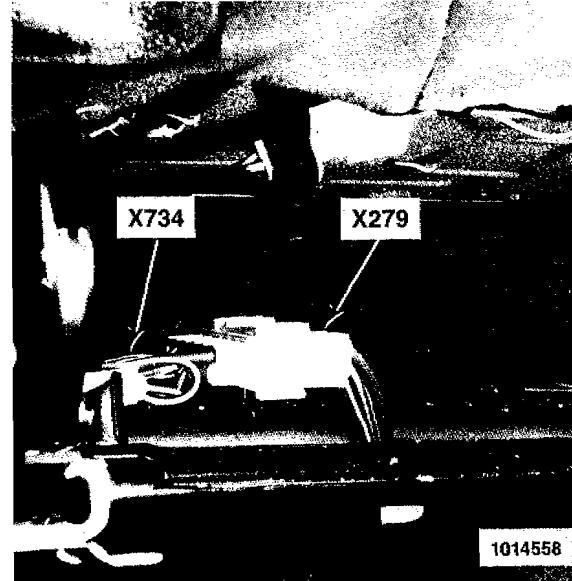


Figure 2- Under Passenger's Seat

X279 Connector (12 pins) WS  
X734 Connector (2 pins) WS

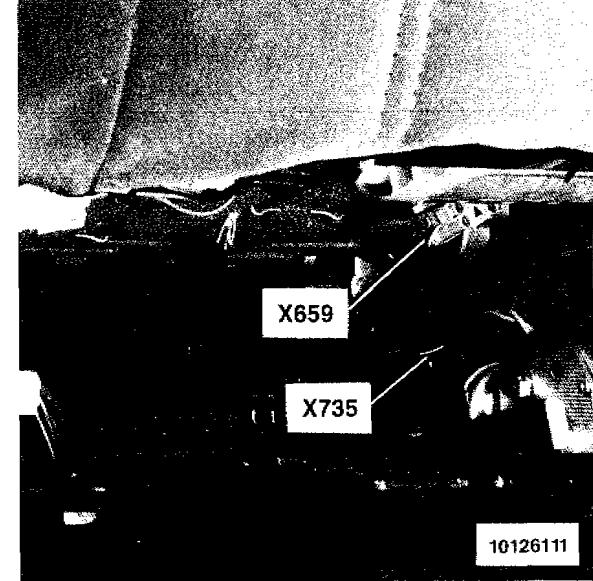
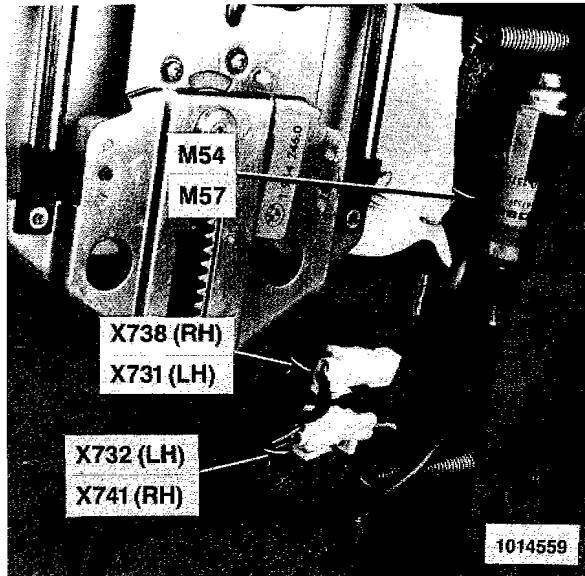


Figure 3- Under Passenger's Seat

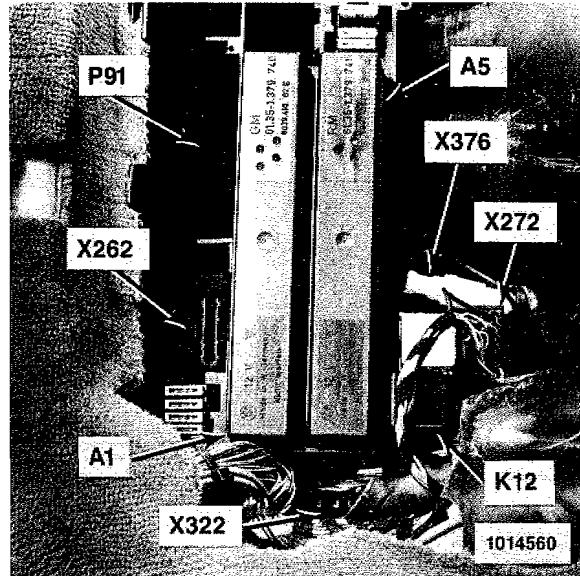
X659 Connector (6 pins) BL  
X735 Connector (2 pins) SW

## COMPONENT LOCATION VIEWS



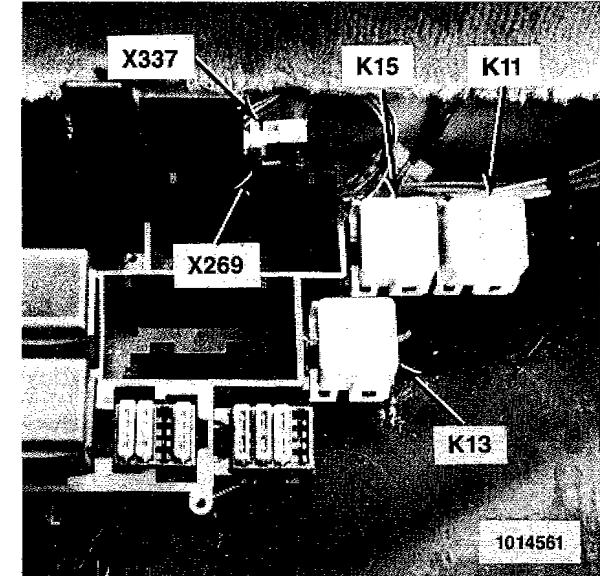
**Figure 1- Inside Back Of LH Front Seat (RH Similar)**

M54 Driver's Headrest Motor  
M57 Passenger's Headrest Motor  
X731 Connector (2 pins) (LH) WS  
X732 Connector (2 pins) (LH) WS  
X738 Connector (2 pins) (RH) WS  
X741 Connector (2 pins) (RH) WS



**Figure 2- Below LH Side Of Rear Seat**

A1 General Module  
A5 Relay Module  
K12 Wiper Pressure Control (ADV)  
Relay  
P91 Rear Power Distribution Box  
X262 Connector (26 pins) BL  
X272 Connector (12 pins) SW  
X322 Connector (6 pins) SW  
X376 Connector (2 pins) WS



**Figure 3- Below LH Side Of Rear Seat**

K11 Wiper Relay  
K13 Rear Defogger Relay  
K15 Electric Power Protection Relay  
X269 Connector (6 pins) SW  
X337 Connector (4 pins) WS

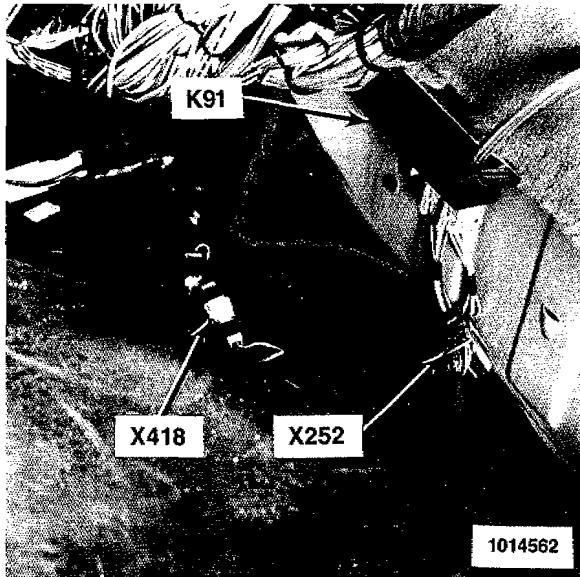


Figure 1- Below LH Side Of Rear Seat  
(Rear Power Distribution Box  
Removed)

K91 On-Board Computer Horn Relay  
X252 Connector (26 pins) GN  
X418 Connector (1 pin) GE

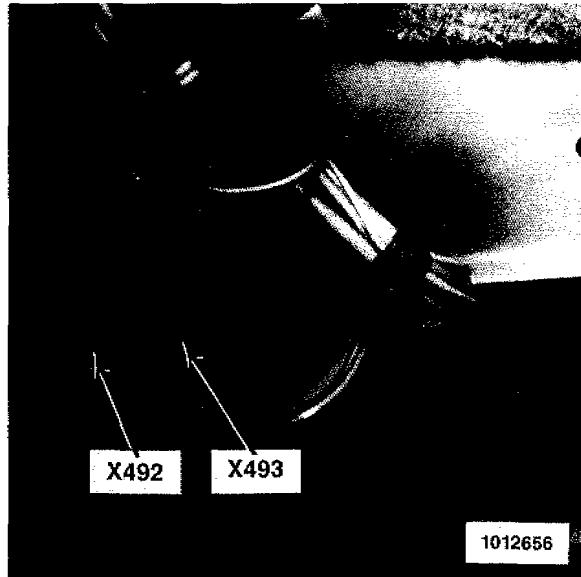


Figure 2- Below LH Side Of Rear Seat

X492 Ground  
X493 Ground

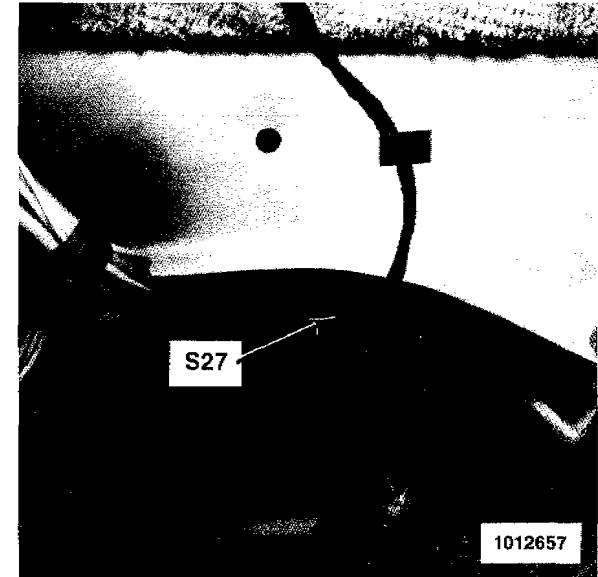


Figure 3- Below LH Side Of Rear Seat

S27 Inertia Switch

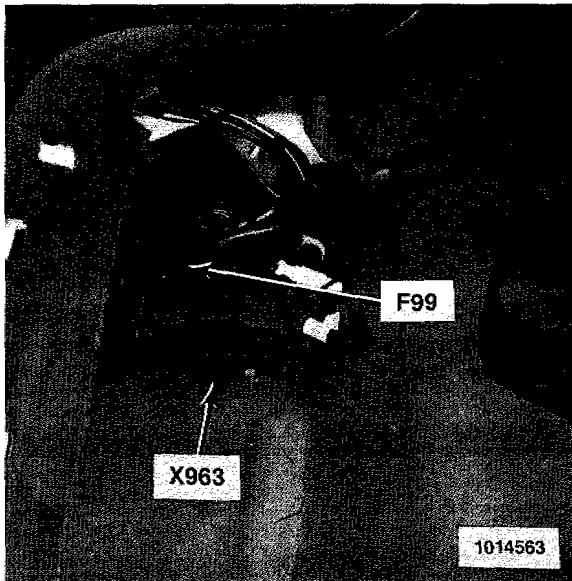


Figure 1- Below RH Side Of Rear Seat  
(525i)

F99 Fusible Link 50A  
X963 B+ Junction Post

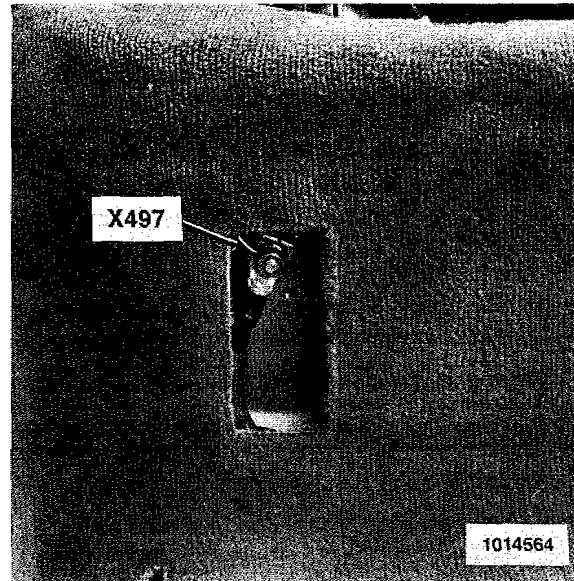


Figure 2- Ahead Of RH Side Of Rear Seat

X497 Ground (Battery)

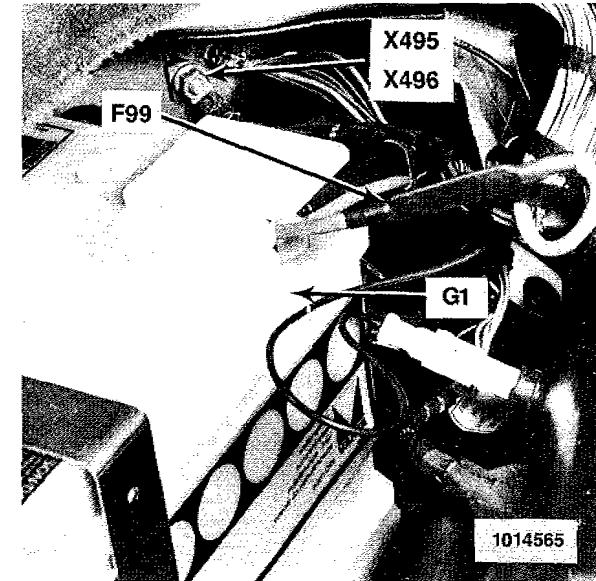


Figure 3- Below RH Side Of Rear Seat  
(535i Shown; 525i Similar)

F99 Fusible Link  
G1 Battery  
X495 Ground  
X496 Ground

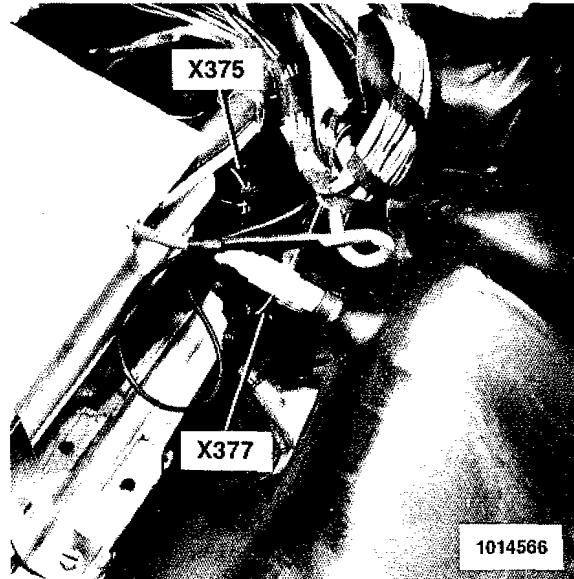


Figure 1- Below RH Side Of Rear Seat  
(535i Shown; 525i Similar)

X375 Connector (3 pins) SW  
X377 Connector (2 pins) WS

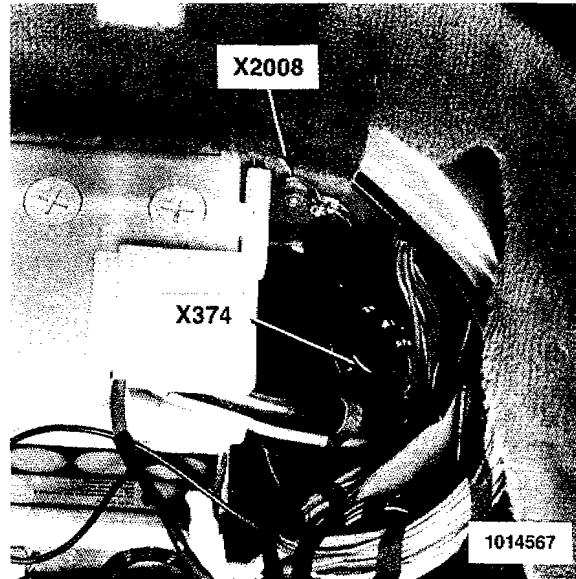


Figure 2- Below RH Side Of Rear Seat  
(535i Shown; 525i Similar)

X374 Connector (3 pins) SW  
X2008 Ground

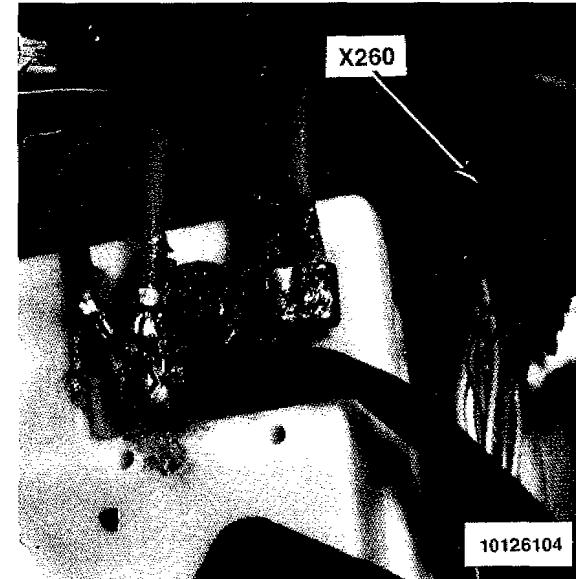


Figure 3- Below RH Side Of Rear Seat  
(535i Shown; 525i Similar)

X260 Connector (21 pins) SW

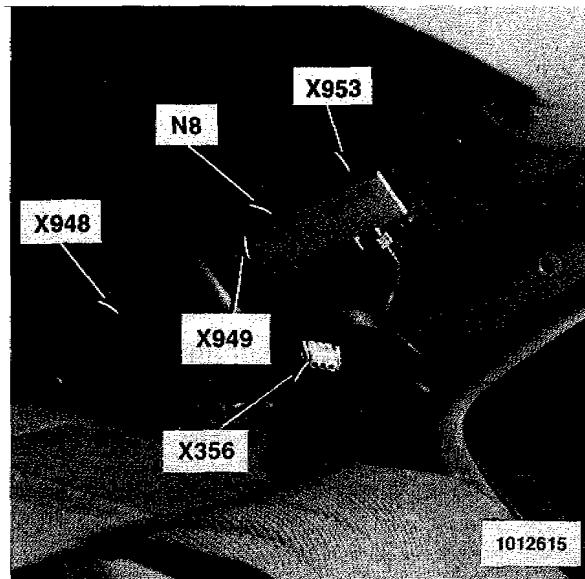


Figure 1- LH "C" Pillar

N8 Antenna Amplifier  
X356 Connector (3 pins) WS  
X948 Connector (1 pin) SW  
X949 Connector (1 pin) SW  
X953 Connector (1 pin) SW

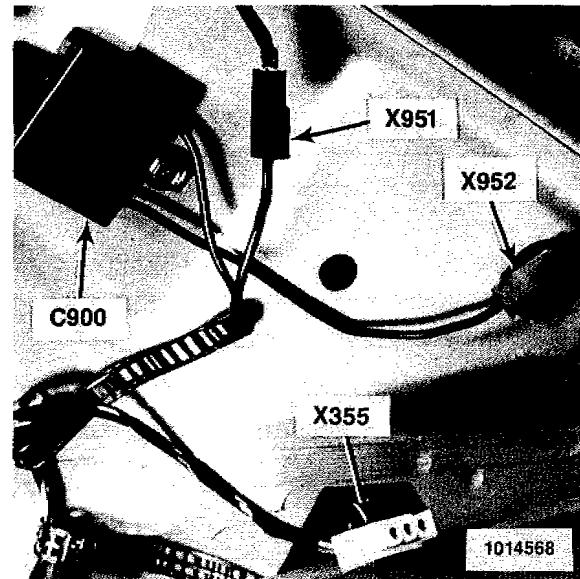


Figure 2- RH "C" Pillar

C900 Defogger Coupler  
X355 Connector (3 pins) WS  
X951 Connector (1 pin) SW  
X952 Connector (1 pin) SW

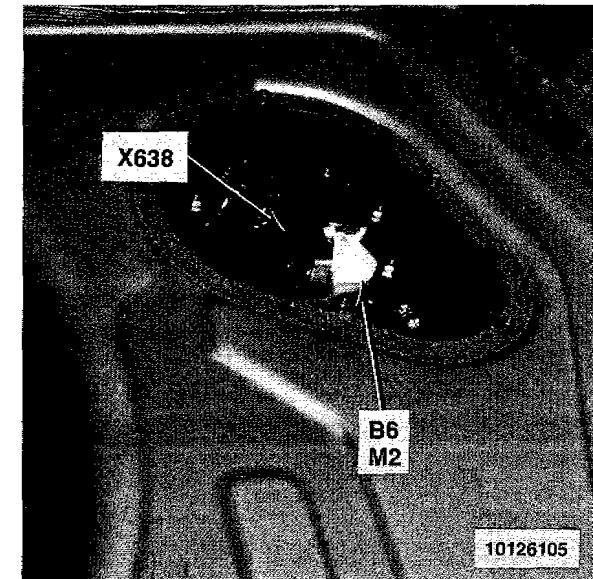
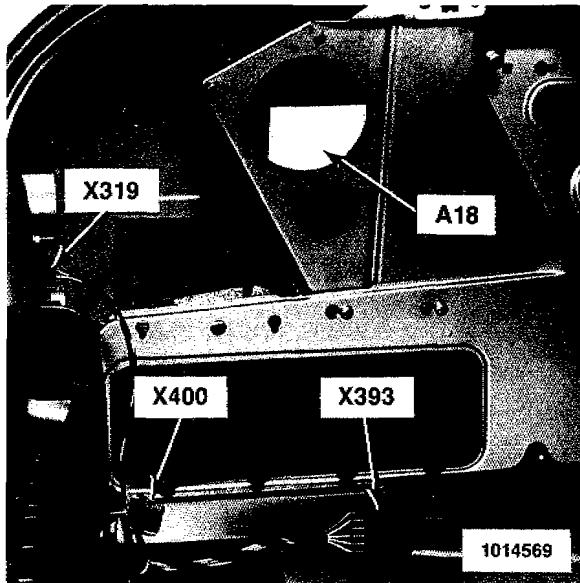


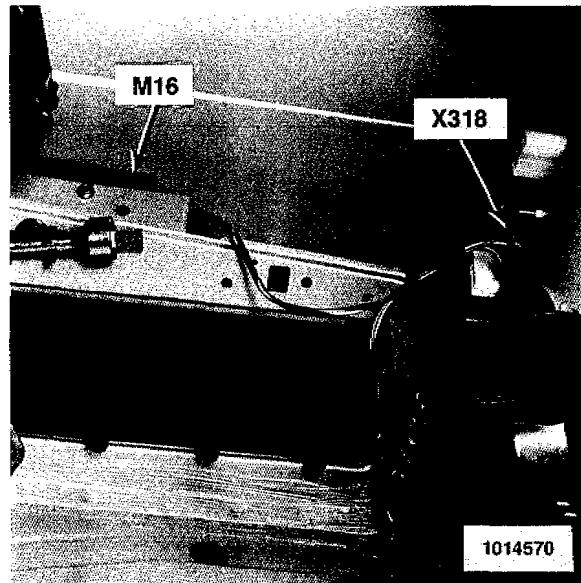
Figure 3- RH Side Of Luggage Compartment, Below Maintenance Cover

B6 Fuel Tank Sensor  
M2 Fuel Pump  
X638 Connector (8 pins) SW

**COMPONENT LOCATION VIEWS**

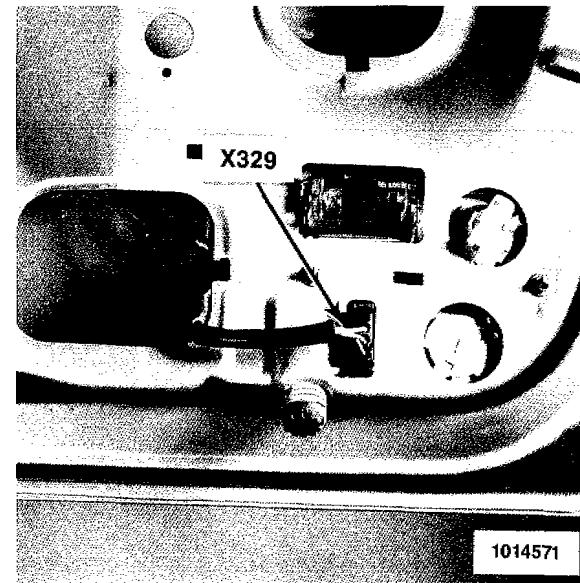
**Figure 1- LH Side Of Luggage Compartment**

A18 HIFI Amplifier  
X319 Connector (4 pins) SW  
X393 Conenctor (6 pins) SW  
X400 Conector (3 pins) SW



**Figure 2- RH Side Of Luggage Compartment**

M16 Gas Filler Lock Motor  
X318 Connector (4 pins) SW



**Figure 3- LH Rear Of Trunk Lid**

X329 Connector (4 pins) SW

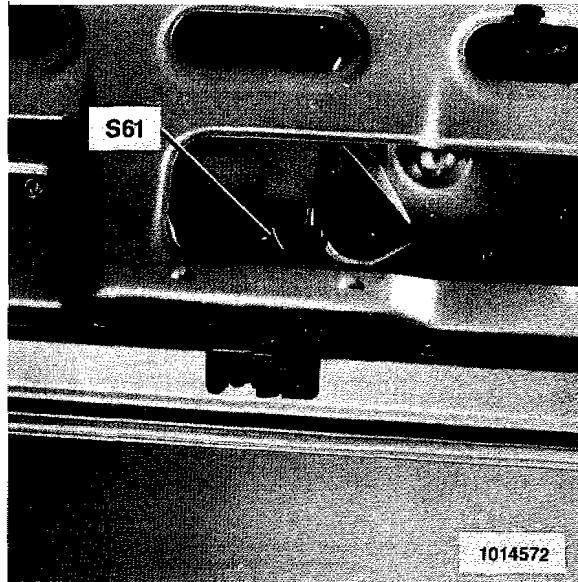


Figure 1- Center Rear Of Trunk Lid

S61 Trunk Lid Switch

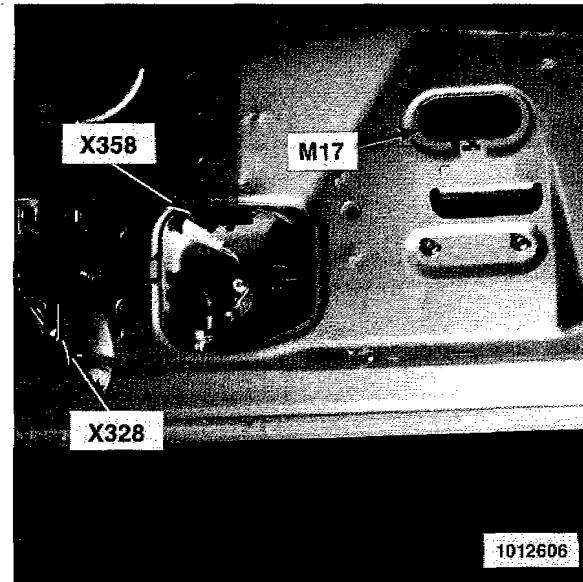


Figure 2- RH Rear Of Trunk Lid

M17 Trunk Lock Motor  
X328 Connector (4 pins) SW  
X358 Connector (3 pins) SW



## SPLICE LOCATION VIEWS

### INDEX

2/89

This index contains all the splices in the car, what harness each one is in, and the page that the splices appear on. The drawings after the index show how the harness is routed through the car and where the splices are located on the harness.

Splice	Harness	Page
X181-X246	Front	8000.0-01
X428-X475	Rear	8000.0-05
X557-X584	Instrument	8000.0-04
X831	Sunroof	Not shown
X833	Rear	8000.0-05
X834	LH Rear Door	Not shown
X835	RH Rear Door	Not shown
X836	Driver's Seat	Not shown
X839-X843	Driver's Seat	Not shown
X844-X847	Passenger's Seat	Not shown
X848-X851	Driver's Door	Not shown
X852-X860	IHKR	Not shown
X863	Passenger's Door	Not shown
X864-X865	Park Ventilation	Not shown
X1029	Front	8000.0-01
X1030	Front	8000.0-01
X1033	Front	8000.0-01
X1043	Front	8000.0-01
X1202	Front	8000.0-01
X1359	Rear	8000.0-05
X1360	Front	8000.0-01
X1902-X1955	M30 Engine	8000.0-02
	M20 Engine	8000.0-03
X2010	AEGS	Not shown

8000.0-00

1989



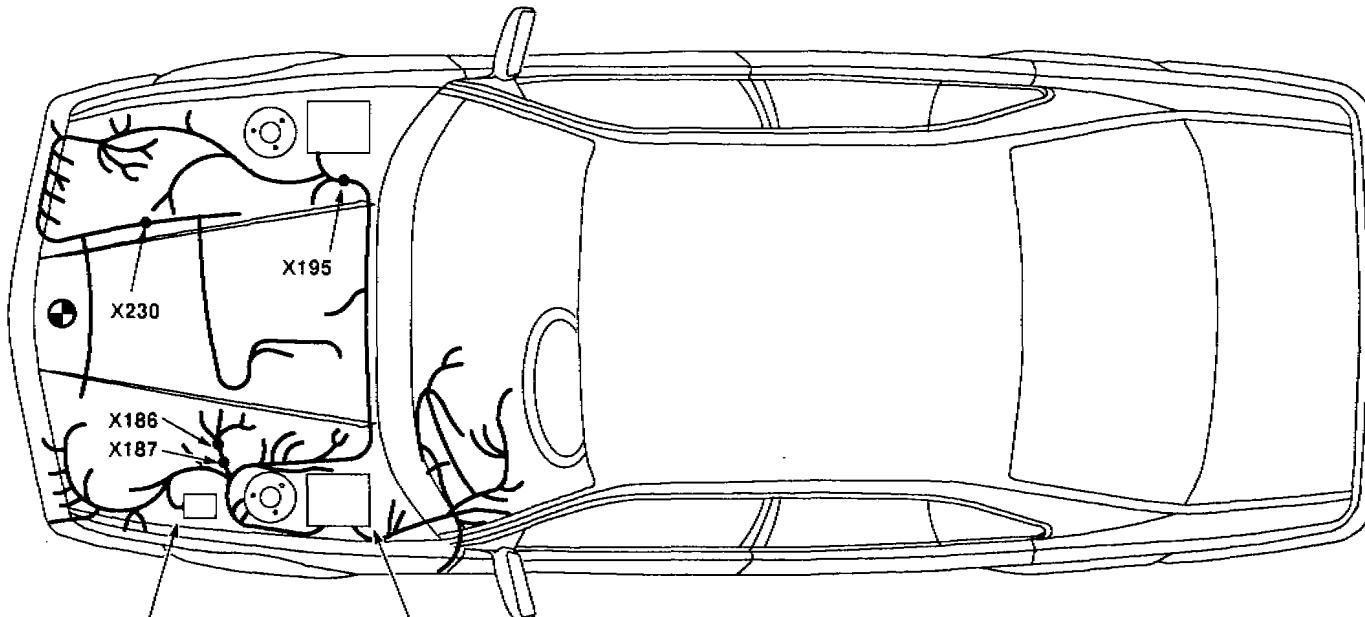
## SPLICE LOCATION VIEWS

### FRONT HARNESS

2/89

8000.0-01

1989



X189 •  
X202 •

X181 •	X196 •	X207 •	X225 •	X1043 •
X182 •	X197 •	X208 •	X226 •	X1202 •
X183 •	X198 •	X209 •	X227 •	
X184 •	X199 •	X212 •	X228 •	
X185 •	X200 •	X213 •	X241 •	
X188 •	X201 •	X214 •	X245 •	
X190 •	X203 •	X215 •	X246 •	
X191 •	X204 •	X217 •	X1029 •	
X192 •	X205 •	X222 •	X1030 •	
X193 •	X206 •	X223 •	X1033 •	



## SPLICE LOCATION VIEWS

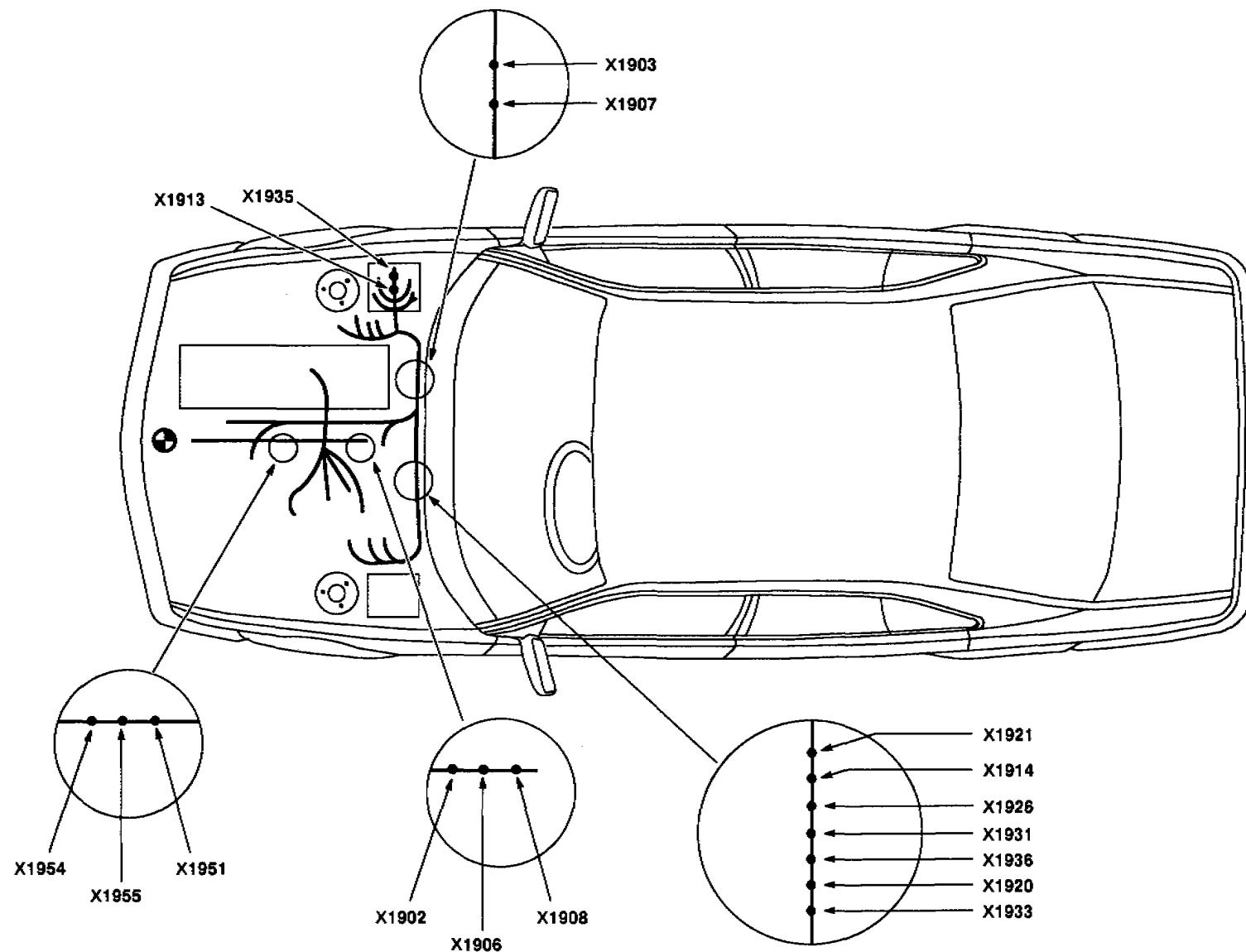
M30 ENGINE HARNESS (535i)

535i

6/88

8000.0-02

1989

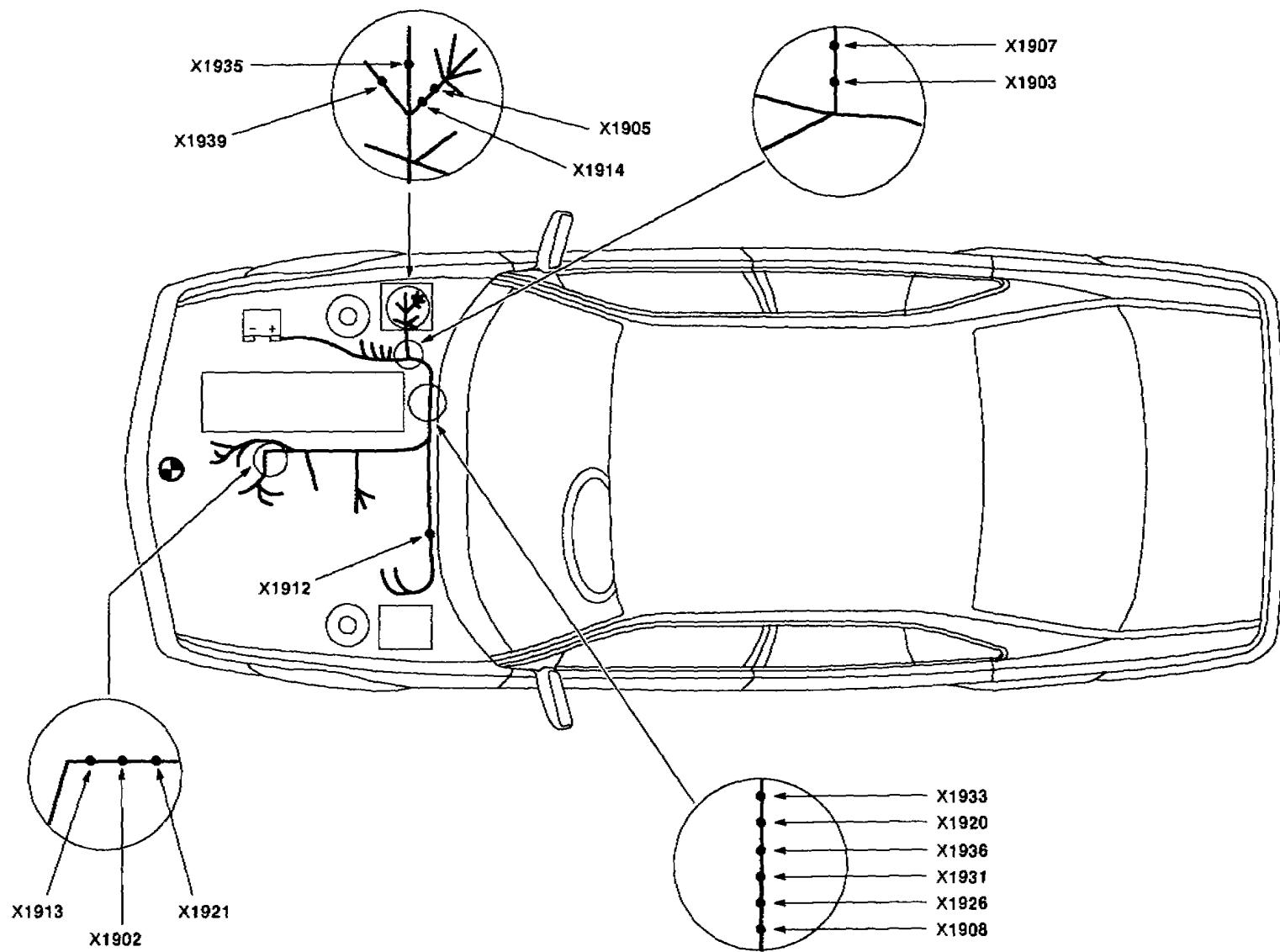




## SPLICE LOCATION VIEWS

525i

M20 ENGINE HARNESS (525i)





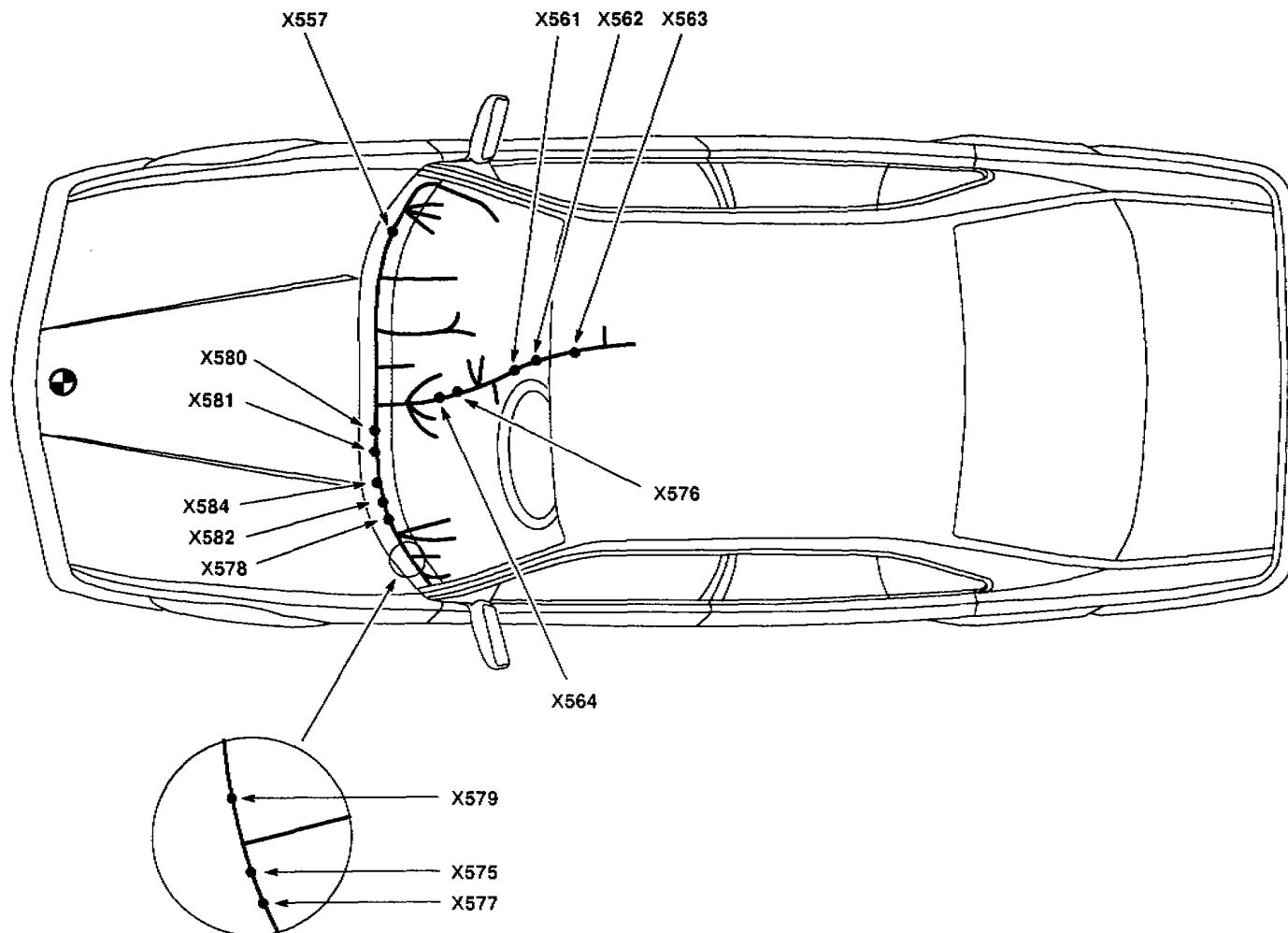
## SPLICE LOCATION VIEWS

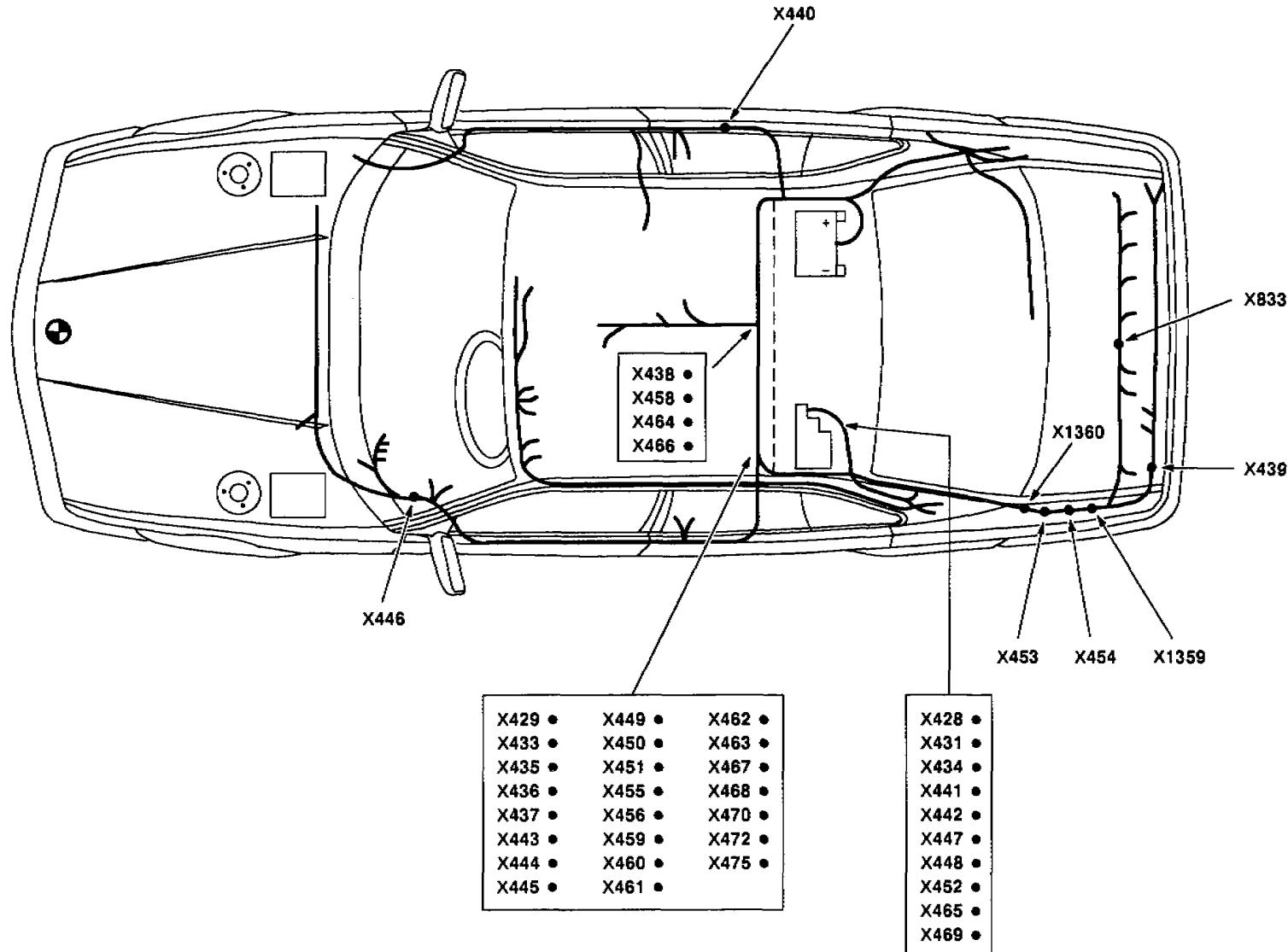
### INSTRUMENT HARNESS

2/89

8000.0-04

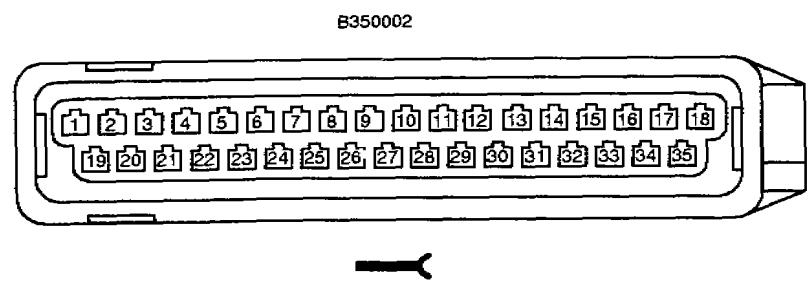
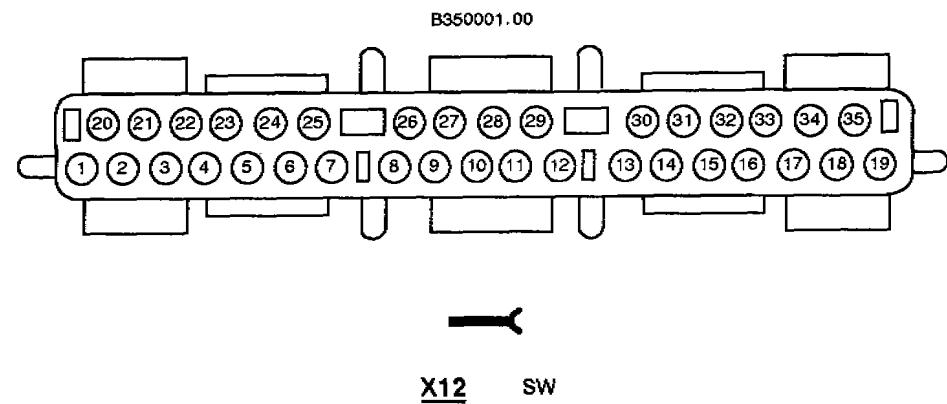
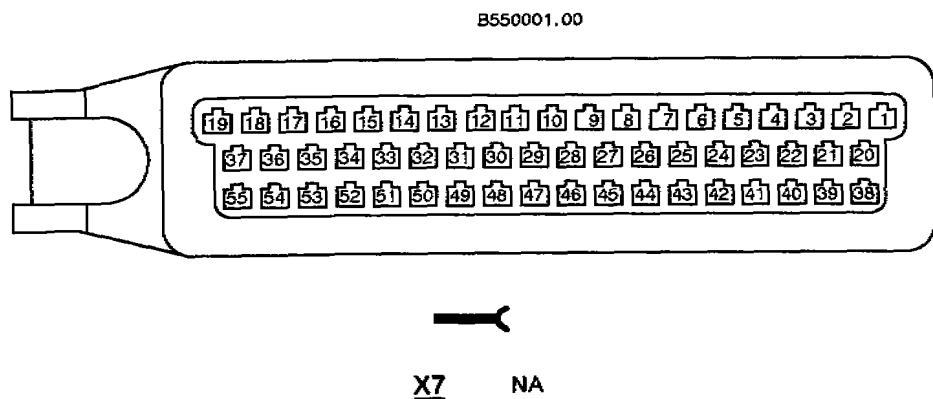
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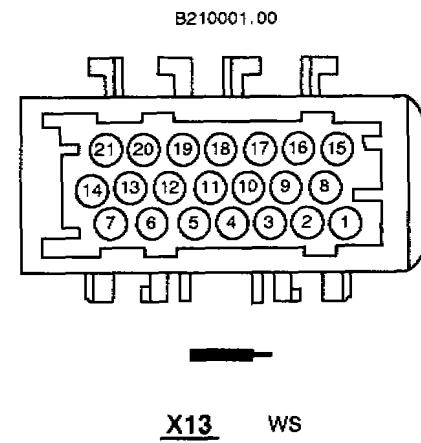




## CONNECTOR VIEWS



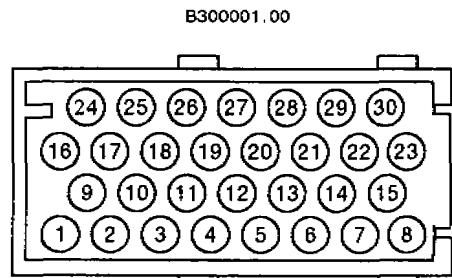
X11 NA





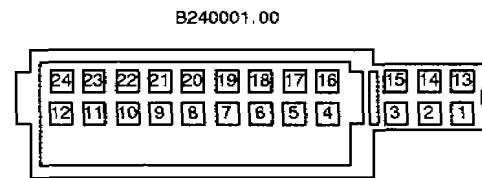
## CONNECTOR VIEWS

6/88

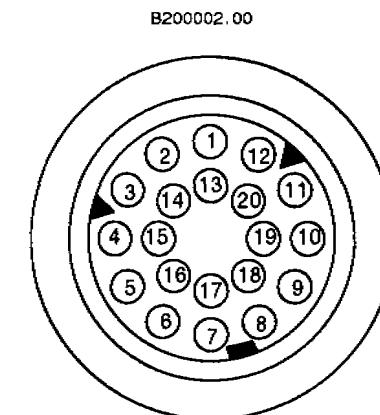


X14 GE

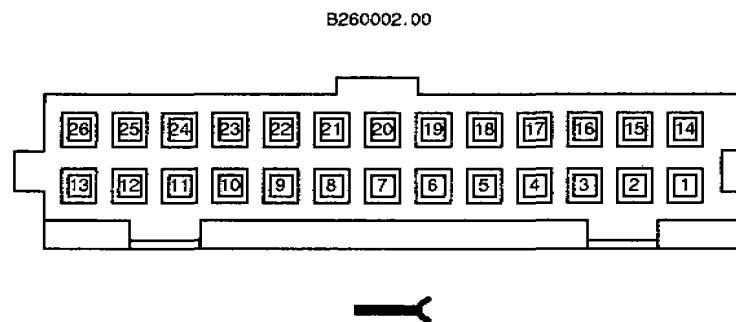
X15 WS



X17 BR



X20 SW

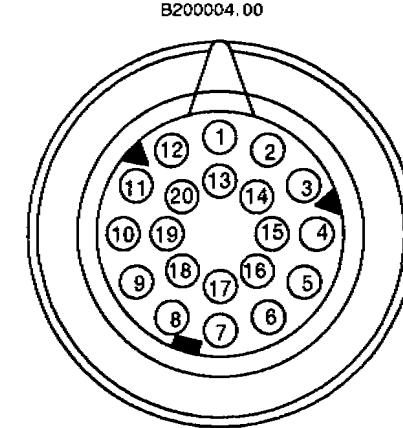


X16 BG

X18 BL

X19 GN

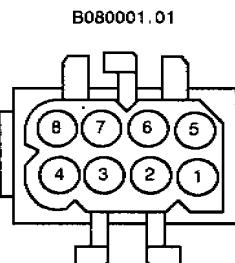
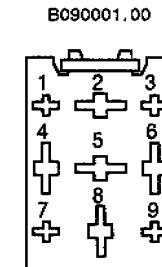
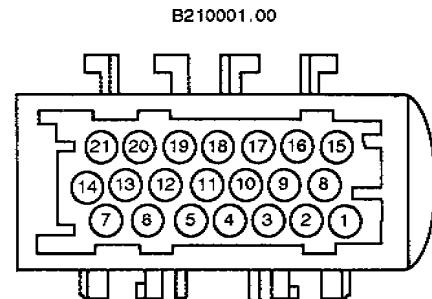
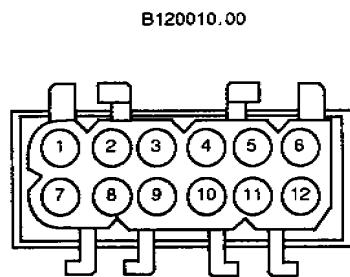
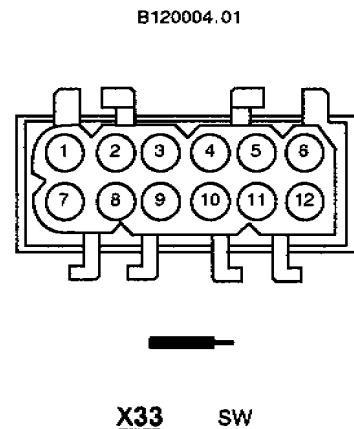
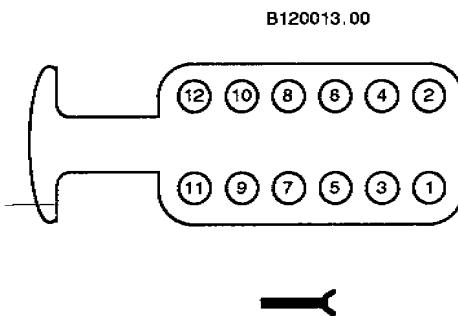
X22 BL



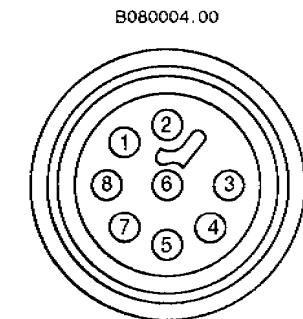
X21 SW

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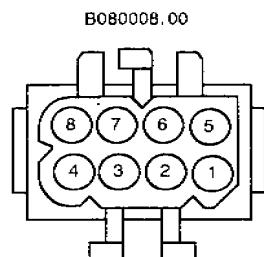
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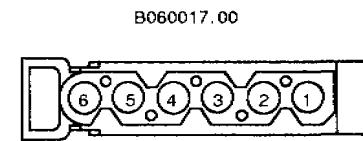
X69 WS  
X72 WS



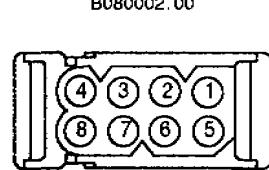
X70 SW  
X71 SW



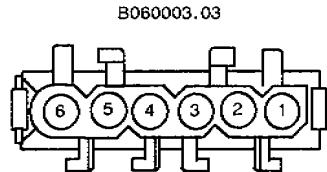
X74 OR



X76 SW



X73 SW



X75 OR

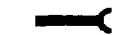
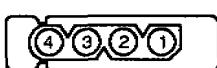


## CONNECTOR VIEWS

6/88

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X79 WS

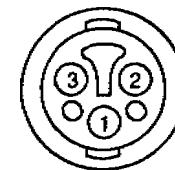
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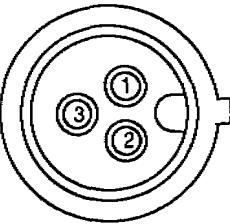


X82 SW  
X85 SW

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X84 GE



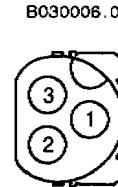
X81 OR  
X86 OR

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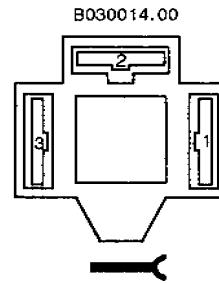
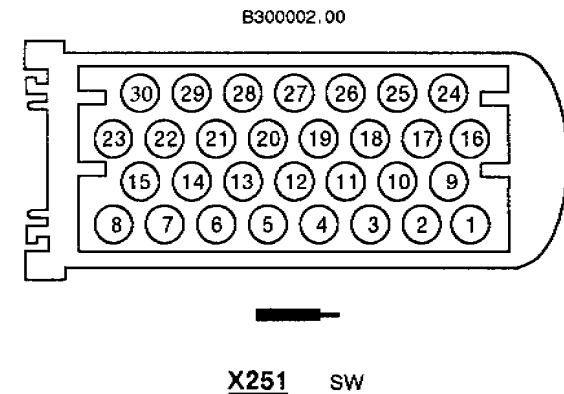
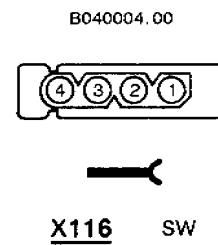
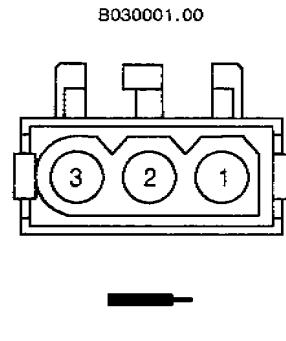
X83 GE

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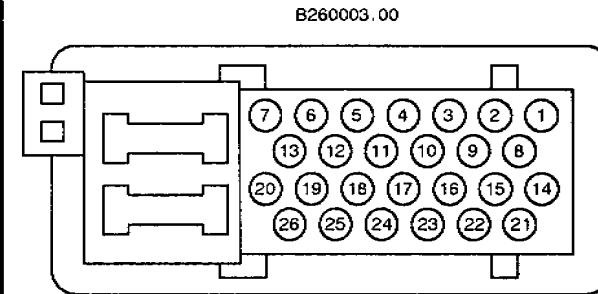
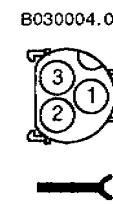


X87 SW

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X90 SW  
X93 SW  
X94 SW

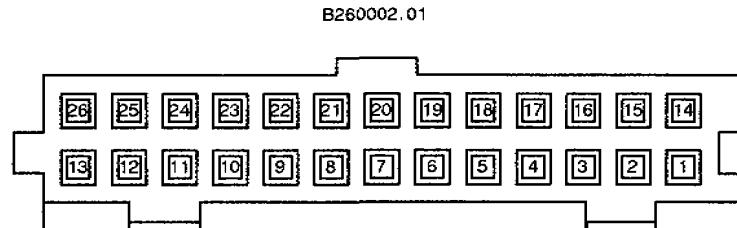


FOR  
X269  
SEE PAGE  
8500.0-24



## CONNECTOR VIEWS

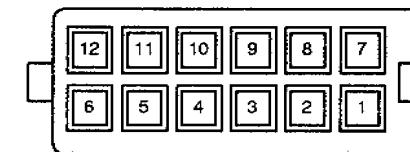
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X252 GN      X255 GE  
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X254 WS

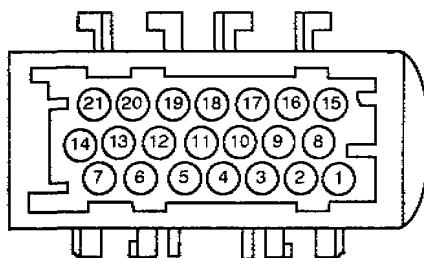
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SEE PAGE  
8500.0-24

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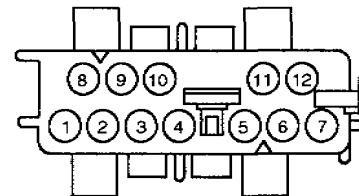
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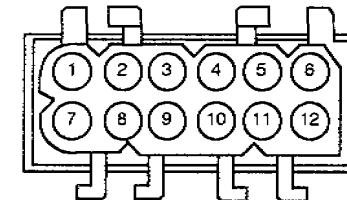
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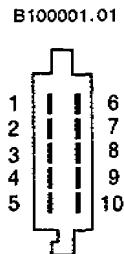
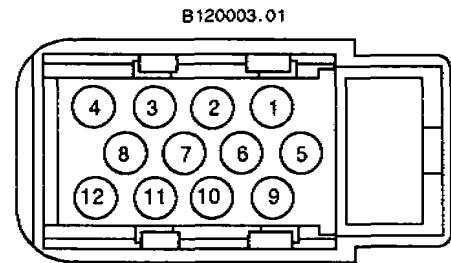


X272 SW



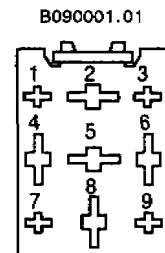
## CONNECTOR VIEWS

6/88



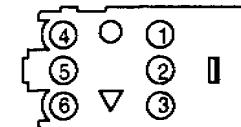
X273 WS  
X274 WS

X277 SW  
X278 SW

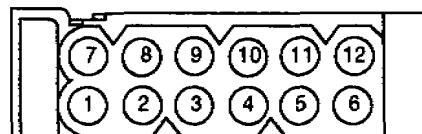


X290 SW    X293 WS  
X291 SW    X294 WS  
X292 WS    X297 WS

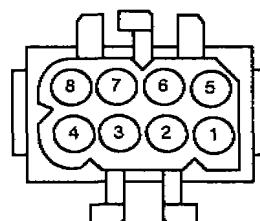
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X312 SW

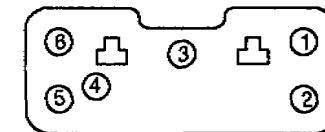


X275 WS  
X279 WS



X295 SW

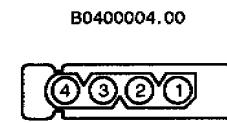
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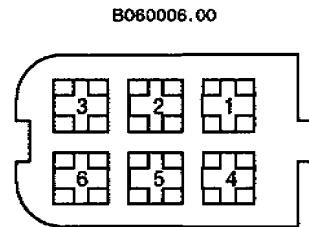
X316 WS  
X317 SW

8500.0-07

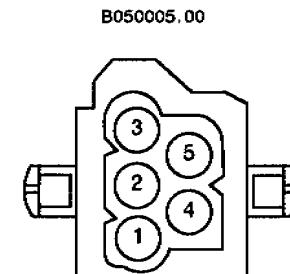
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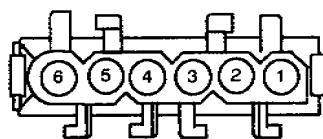
X318 SW  
X319 SW



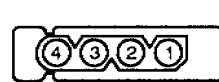
X323 SW



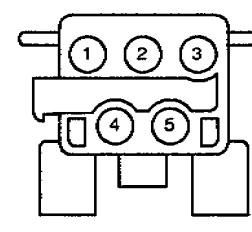
X331 GN



X322 SW



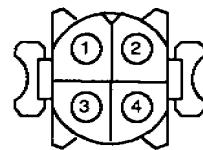
X328 SW  
X329 SW



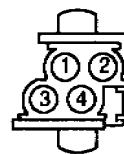
X332 SW

## CONNECTOR VIEWS

B040008.00

X333 SW

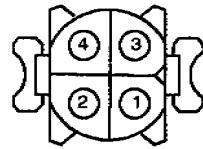
B040003.00

X335 GN

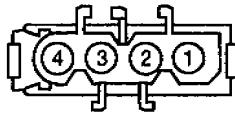
B040005.00

X338 SW  
X339 SW

B040008.00

X334 WS

B040002.00

X336 WSX337 WS

B040004.00

X342 WS



## CONNECTOR VIEWS

6/88

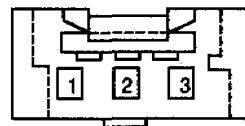
B030003.00



X355 WS

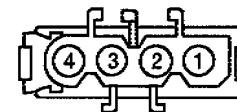
X356 WS

B0300010.00



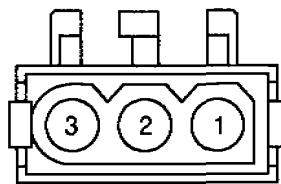
X360 NA

B040002.00



X400 SW

B030001.01



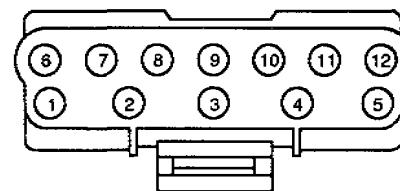
X358 SW

B060001.02



X393 SW

B120006.00



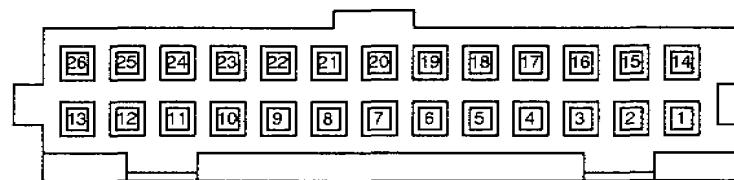
X503 SW

X504 SW

8500.0-10

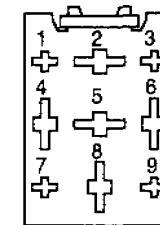
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B260002.02



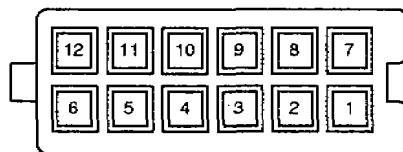
X501 GN  
X502 WS

B090001.04



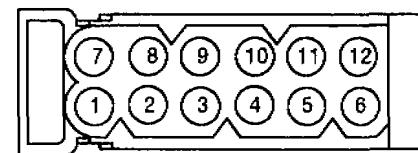
X509 SW  
X510 SW

B120011.00



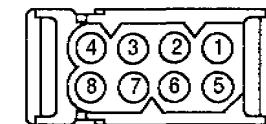
X505 GR

B120002.01



X506 SW

B080002.00

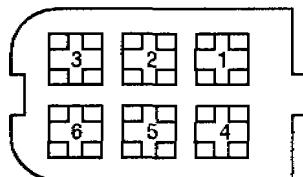


X511 SW  
X512 SW

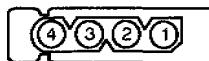


## CONNECTOR VIEWS

B060006.00

X514 BLX521 SW

B0400004.00

X517 SWX518 SWX519 WS

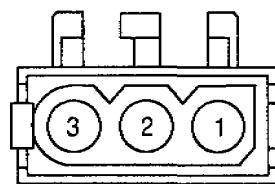
B030003.01

X522 WS

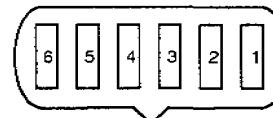
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X516 SW

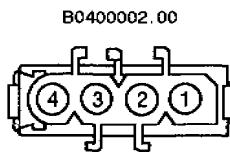
B030001.02

X520 WS

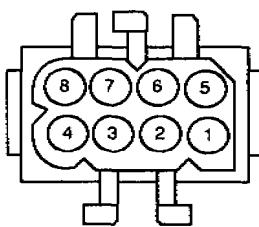
B060023.00

X523 SW

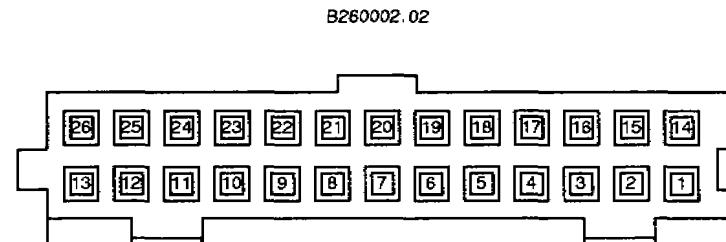
## CONNECTOR VIEWS



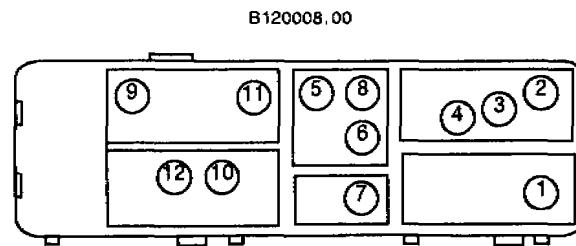
X524 SW



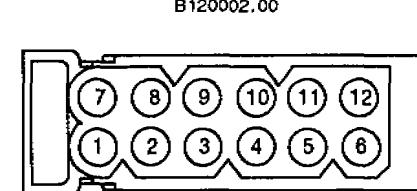
X526 SW



X601 SW      X612 BL  
X602 SW      X613 BL  
X610 WS      X614 GE  
X611 GN



X603 SW  
X604 SW



X605 SW

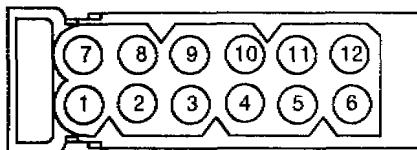


## CONNECTOR VIEWS

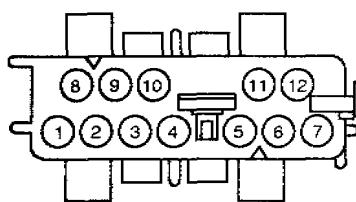
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8500.0-14

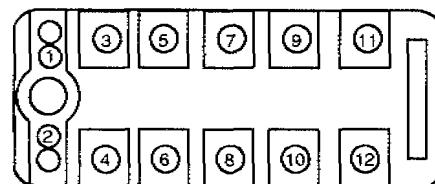
B120002.01

X606 WSX619 WS

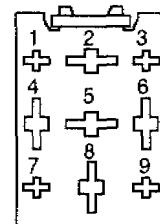
B120005.01

X607 SWX609 SW

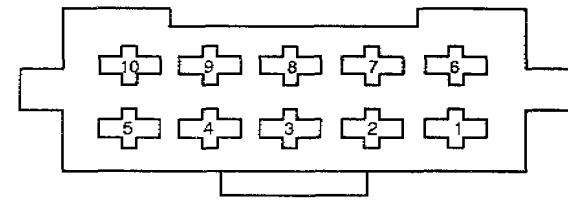
B120009.00

X608 SW

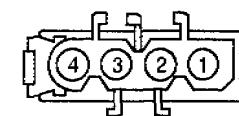
B090001.02

X620 WS

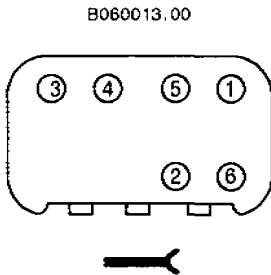
B100002.00

X621 SWX622 SW

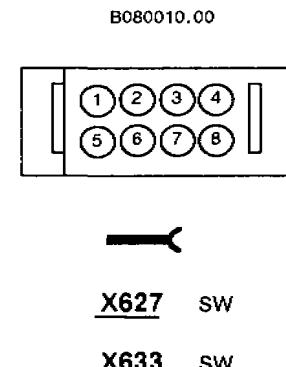
B040002.00

X623 GRX624 GR

1989

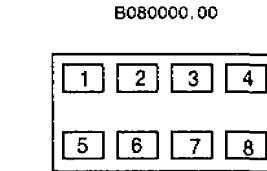


X625 SW

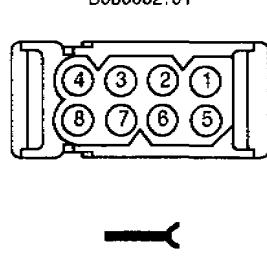


X627 SW

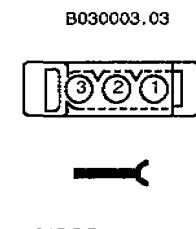
X633 SW



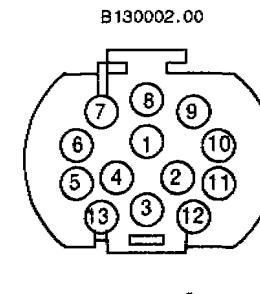
X629 NA



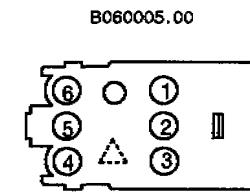
X626 SW



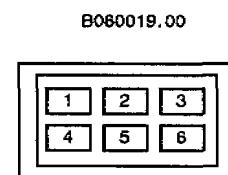
X628 SW



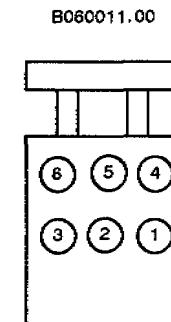
X630 SW



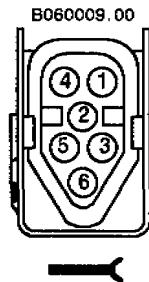
X636 SW ▽  
X637 SW ▽  
X643 BL △



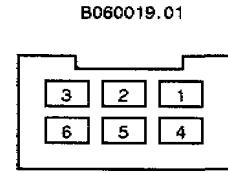
X640 SW



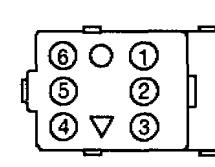
X643 SW



X638 SW  
X641 SW  
X644 SW  
X646 SW  
X660 SW

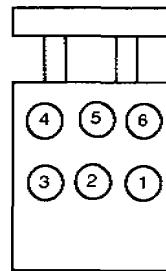


X642 SW



X645 SW  
X647 SW

B060011.00

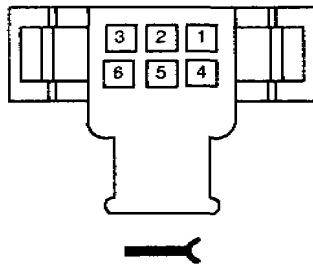
X648 SWX649 WS

B060005.01



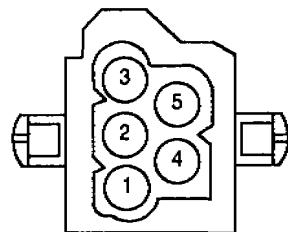
<u>X650</u>	SW	▽	<u>X655</u>	BL	△
<u>X651</u>	SW	▽	<u>X656</u>	GN	▽
<u>X652</u>	BL	△	<u>X657</u>	BR	△
<u>X653</u>	SW	▽	<u>X658</u>	SW	▽
<u>X654</u>	WS	▷	<u>X659</u>	BL	△

B060010.01

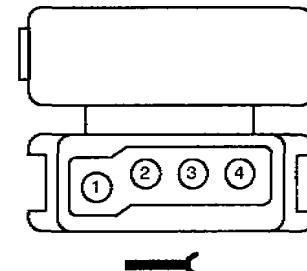


<u>X661</u>	SW	<u>X666</u>	SW
<u>X662</u>	SW	<u>X667</u>	SW
<u>X663</u>	SW	<u>X668</u>	SW
<u>X664</u>	SW	<u>X669</u>	SW
<u>X665</u>	SW	<u>X670</u>	SW

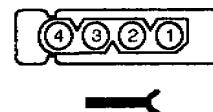
B050001.00

X671 GN

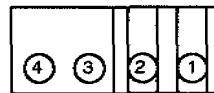
B040009.00

X672 SW

B040004.01

X673 SWX674 SW

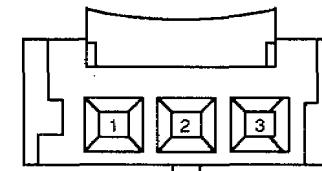
B040009.00

X675 WSX676 SW

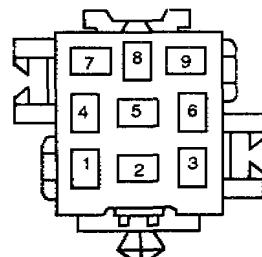
B030003.02

X680 SWX683 SWX693 SW

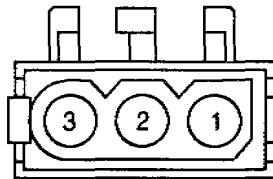
B030016.00

X682 NAX694 NA

B090002.00

X677 SW

B030001.03

X681 WS

B030004.01

X684 SWX685 SW

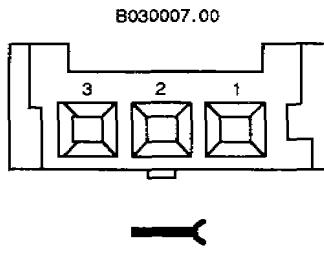


## CONNECTOR VIEWS

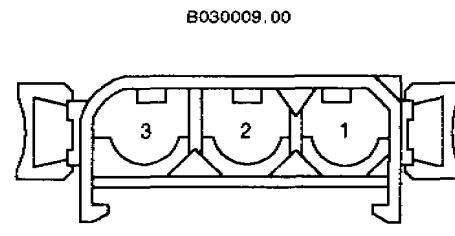
6/88

8500.0-19

1989

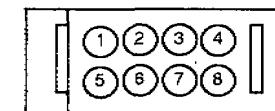


X686 BL      X689 BL  
X687 BL      X690 BL  
X688 BL

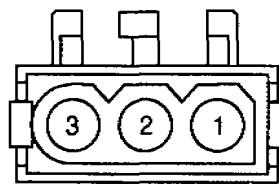


X696 SW

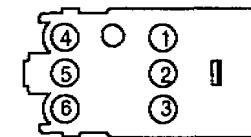
B080010.01



X898 SW

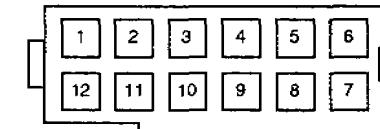


X692 SW  
X695 SW



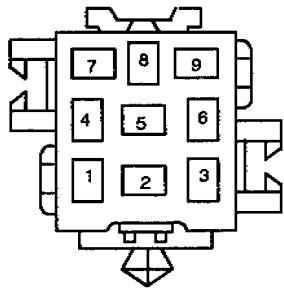
X881 WS  
X886 WS

B120001.00



X899 GN

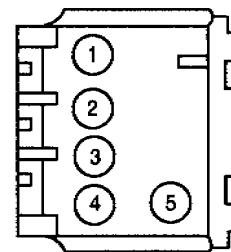
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X902 SW

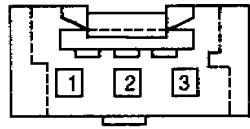
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X904 SW

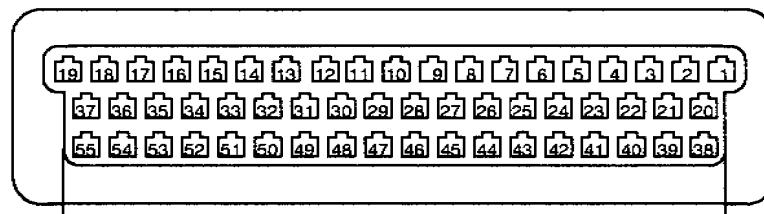
B050002.00

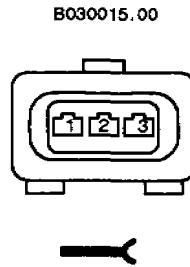
X905 SW

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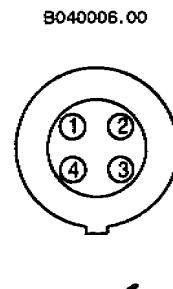
X903 NA

B550001.00

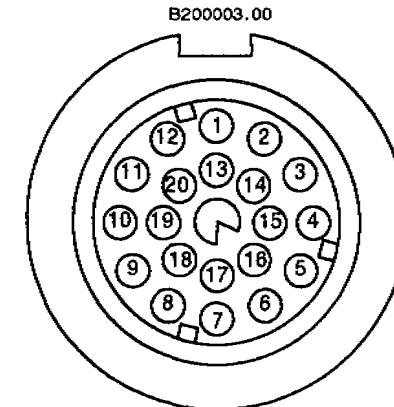
X1500 NA



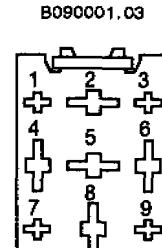
X1514 SW  
X1521 SW  
X1522 SW  
X1525 SW  
X1533 SW



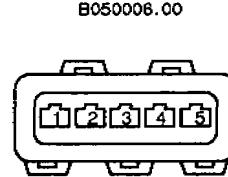
X1523 SW



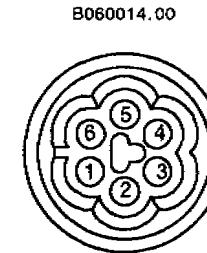
X1532 SW



X1515 WS  
X1516 WS  
X1517 WS



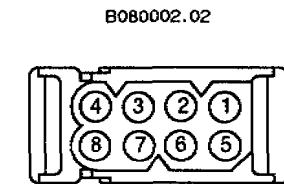
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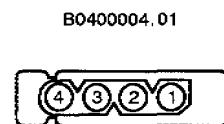
X1536 SW



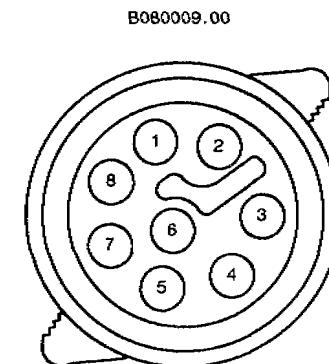
## CONNECTOR VIEWS



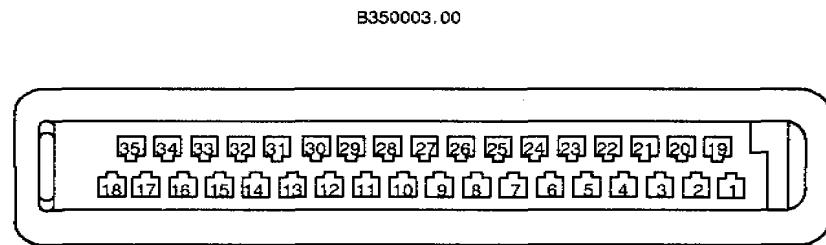
X1537 SW



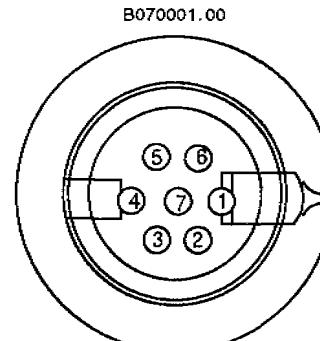
X1552 SW



X1554 SW



X1550 SW



X1563 SW



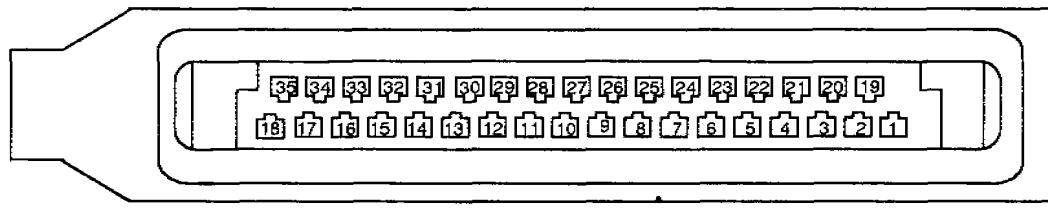
## CONNECTOR VIEWS

6/88

8500.0-23

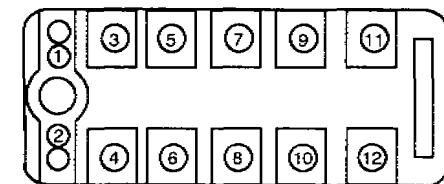
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B350004.00



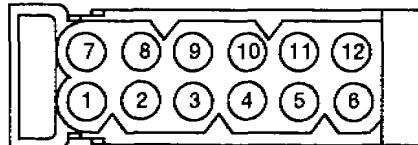
X2000 NA

B120009.01



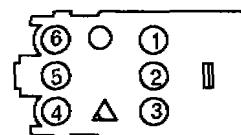
X2004 SW

B120002.04



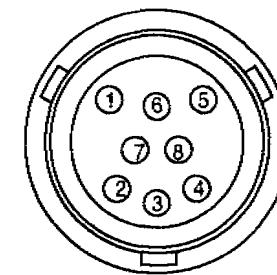
X2001 SW

B060005.17



X2003 BL

B080005.00

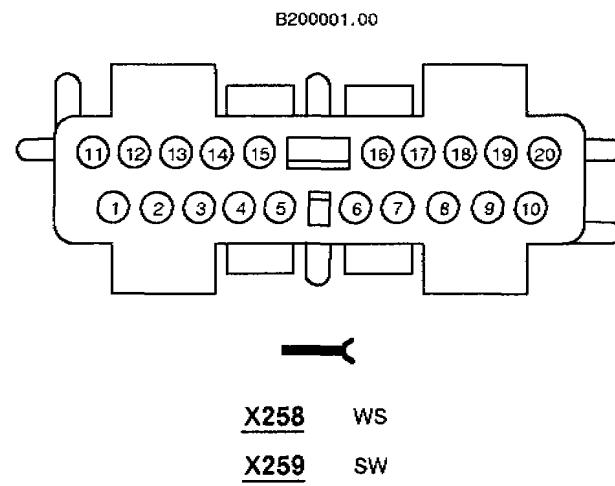
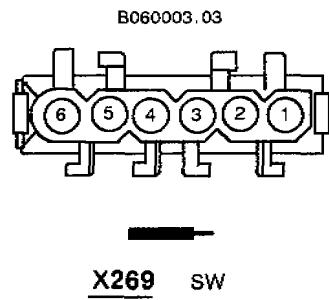


X2005 SW



## CONNECTOR VIEWS

2/89



8500.0-24

1989